

Mgr. Slováková Marcela, Ph.D.

<https://orcid.org/0000-0002-4975-0983>

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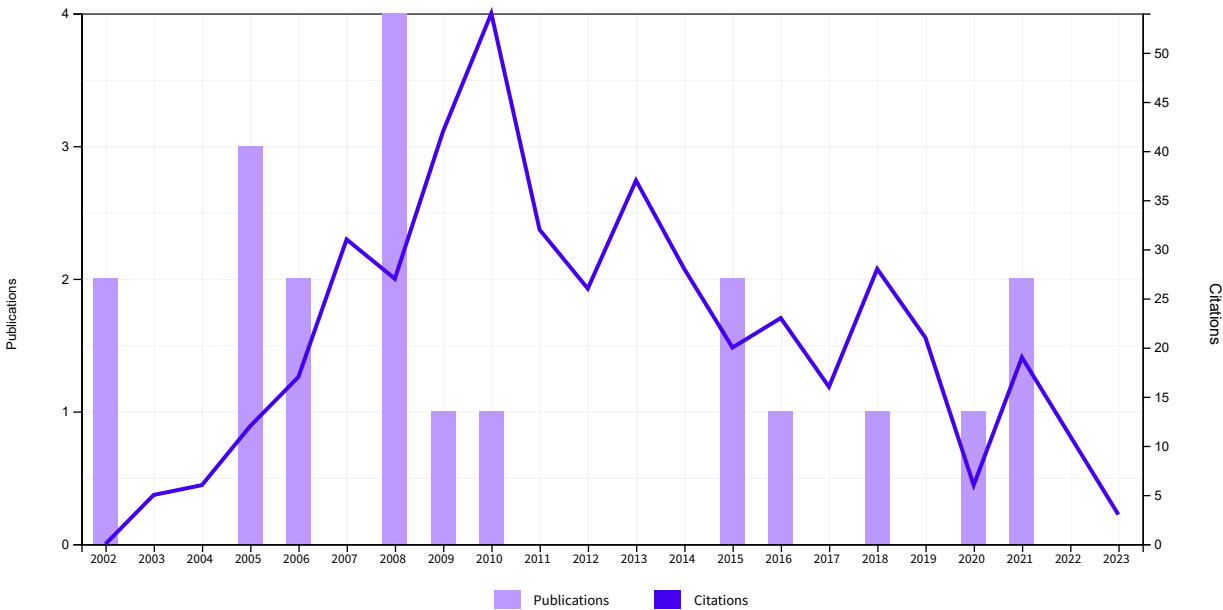
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20 Publications	Sort by: Date: newest first ▼	< 1 of 1 >		Citations						
				< Previous year Next year >					Average per year	Total
				2019	2020	2021	2022	2023		
Total				21	6	19	11	3	22.1	464
⊖ 1 Affiblot: a dot blot-based screening device for selection of reliable antibodies Svobodova, Z; Novotny, J; (...); Foret, F Sep 21 2021 Aug 2021 (Early Access) ANALYTICAL METHODS 13 (35) , pp.3874-3884				0	0	0	0	0	0	0

19

?

⊖ 2	Contemporary Enzyme-Based Methods for Recombinant Proteins In Vitro Phosphorylation Slovakova, M and Bilkova, Z Aug 2021 CATALYSTS 11 (8)	0	0	1	3	0	1.33	4
⊖ 3	Disruption of Cell Adhesion and Cytoskeletal Networks by Thiol-Functionalized Silica-Coated Iron Oxide Nanoparticles Kralovec, K; Melounkova, L; (...); Havelek, R Dec 2020 INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 21 (24) 📖 Enriched Cited References	0	0	3	1	2	1.5	6
⊖ 4	Kinase-loaded magnetic beads for sequential in vitro phosphorylation of peptides and proteins Hromadkova, L; Kupcik, R; (...); Slovakova, M Jan 21 2018 ANALYST 143 (2) , pp.466-474	3	1	3	0	0	1.17	7
⊖ 5	Covalent biofunctionalization of chitosan nanofibers with trypsin for high enzyme stability Srbova, J; Slovakova, M; (...); Bilkova, Z Jul 2016 REACTIVE & FUNCTIONAL POLYMERS 104 , pp.38-44	7	1	5	3	0	3.25	26
⊖ 6	Application of trypsin Fe3O4@SiO2 core/shell nanoparticles for protein digestion Slovakova, M; Sedlak, M; (...); Bilkova, Z Dec 2015 PROCESS BIOCHEMISTRY 50 (12) , pp.2088-2098	4	1	1	0	0	1.44	13
⊖ 7	TESTING OF COLLAGENASE COVALENTLY LINKED TO CHITOSAN NANOFIBERS FOR BIOMEDICAL APPLICATIONS Slovakova, M; Srbova, J; (...); Bilkova, Z 7th International Conference on Nanomaterials - Research and Application 2015 NANOCON 2015: 7TH INTERNATIONAL CONFERENCE ON NANOMATERIALS - RESEARCH & APPLICATION , pp.435-441	0	0	0	0	0	0	0
⊖ 8	Utilization of the IC-calorimeter for study of enzymatic reaction Podzemna, V; Slovakova, M; (...); Svoboda, L 10th Conference on Calorimetry and Thermal Analysis (CCTA 10)/2nd Czech-Hungarian-Polish-Slovakian Thermoanalytical Conference Aug 2010 JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY 101 (2) , pp.715-719	0	0	0	0	0	0.14	2
⊖ 9	Microfluidic system with integrated magnetic carrier for immunoprecipitation of A beta peptides Jankovicova, B; Zverinova, Z; (...); Bilkova, Z 9th International Conference on Alzheimer's and Parkinson's Diseases (AD/PD) 2009 NEW TRENDS IN ALZHEIMER AND PARKINSON RELATED DISORDERS: ADPD 2009 , pp.239-244	0	0	0	0	0	0.07	1
		1	0	1	0	0	1.63	26

⊖ 10	Epitope mapping of allergen ovalbumin using biofunctionalized magnetic beads packed in microfluidic channels The first step towards epitope-based vaccines Jankovicova, B; Rosnerova, S; (...); Bilkova, Z 22nd International Symposium on Microscale Bioseparations and Methods for Systems Biology Oct 3 2008 JOURNAL OF CHROMATOGRAPHY A 1206 (1) , pp.64-71							
⊖ 11	Magnetic proteinase K reactor as a new tool for reproducible limited protein digestion Slovakova, M; Peyrin, JM; (...); Viovy, JL Apr 2008 BIOCONJUGATE CHEMISTRY 19 (4) , pp.966-972	0	1	0	0	0	0.56	9
⊖ 12	Bioaffinity magnetic reactor for peptide digestion followed by analysis using bottom-up shotgun proteomics strategy Korecka, L; Jankovicova, B; (...); Bilkova, Z Feb 2008 JOURNAL OF SEPARATION SCIENCE 31 (3) , pp.507-515	0	0	0	0	0	0.63	10
⊖ 13	Controlled proteolysis of normal and pathological prion protein in a microfluidic chip Le Nel, A; Minc, N; (...); Taverna, M 2008 LAB ON A CHIP 8 (2) , pp.294-301	0	0	0	1	0	2.88	46
⊖ 14	Functionalized magnetic micro- and nanoparticles: Optimization and application to mu-chip tryptic digestion Bilkova, Z; Slovakova, M; (...); Viovy, JL May 2006 ELECTROPHORESIS 27 (9) , pp.1811-1824	0	0	0	0	0	3.06	55
⊖ 15	Microfluidic systems of self-assembled magnetic particles; application to DNA separation and protein digestion Minc, N; Slovakova, M; (...); Viovy, JL 2nd SHF Congress on Microfluids 2006 HOUILLE BLANCHE-REVUE INTERNATIONALE DE L EAU (4) , pp.51-54	0	0	0	0	0	0.11	2
⊖ 16	Magnetic enzyme reactors for isolation and study of heterogeneous glycoproteins Korecka, L; Jezova, J; (...); Viovy, JL 5th International Conference on Scientific and Clinical Applications of Magnetic Carriers May 1 2005 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 293 (1) , pp.349-357	1	0	0	0	0	1.37	26
⊖ 17	Use of self assembled magnetic beads for on-chip protein digestion Slovakova, M; Minc, N; (...); Viovy, JL 2005 LAB ON A CHIP 5 (9) , pp.935-942	4	1	3	2	0	5.58	106
⊖ 18	Use of magnetic nanoparticles for DNA analysis and protein digestion in lab on chips Minc, N; Slovakova, M; (...); Viovy, JL	0	0	0	0	0	0	0

8th International Conference on Miniaturized Systems for Chemistry and Life Sciences 2005 Micro Total Analysis Systems 2004, Vol 1 (296) , pp.530-532								
19	Oriented immobilization of galactose oxidase to bead and magnetic bead cellulose and poly(HEMA-co-EDMA) and magnetic poly(HEMA-co-EDMA) microspheres Bilkova, Z; Slovakova, M; (...); Churacek, J 2nd International Symposium on Separations in the Biosciences Apr 25 2002 JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES 770 (1-2) , pp.25-34	0	1	1	0	1	2.59	57
20	Enzymes immobilized on magnetic carriers: efficient and selective system for protein modification Bilkova, Z; Slovakova, M; (...); Churacek, J 2nd International Symposium on Separations in the Biosciences Apr 25 2002 JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES 770 (1-2) , pp.177-181	1	0	1	1	0	3.09	68

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Year	Publications	Citations
2021	1	0
2022	1	3
2023	0	0

4 Publications		Citations						
		< Previous year Next year >					Average per year	Total
		2019	2020	2021	2022	2023		
Total		0	0	1	1	1	1	3
1 Expanding the chemical repertoire of protein-based polymers for drug- delivery applications Gueta, O and Amiram, M		0	0	0	0	1	0.5	1

Nov 2022 ADVANCED DRUG DELIVERY REVIEWS 190									
⊖	2	Grunhaus, D ; Molina, ER ; (...); Hurevich, M Aug 19 2022 Jul 2022 (Early Access) ORGANIC PROCESS RESEARCH & DEVELOPMENT 26 (8) , pp.2492-2497	0	0	0	1	0	0.5	1
	3	Hu, NJ ; Li, SY and Liu, YC Sep 2021 CATALYSTS 11 (9)	0	0	1	0	0	0.33	1
		4	Strauss, P ; Nuti, F ; (...); Hurevich, M Feb 22 2023 Nov 2022 (Early Access) ORGANIC & BIOMOLECULAR CHEMISTRY 21 (8) , pp.1674-1679	0	0	0	0	0	0

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Citations of Disruption of Cell Adhesion and Cytoskeletal Networks by Thiol-Functionalized Silica-Coated Iron Oxide Nanoparticles

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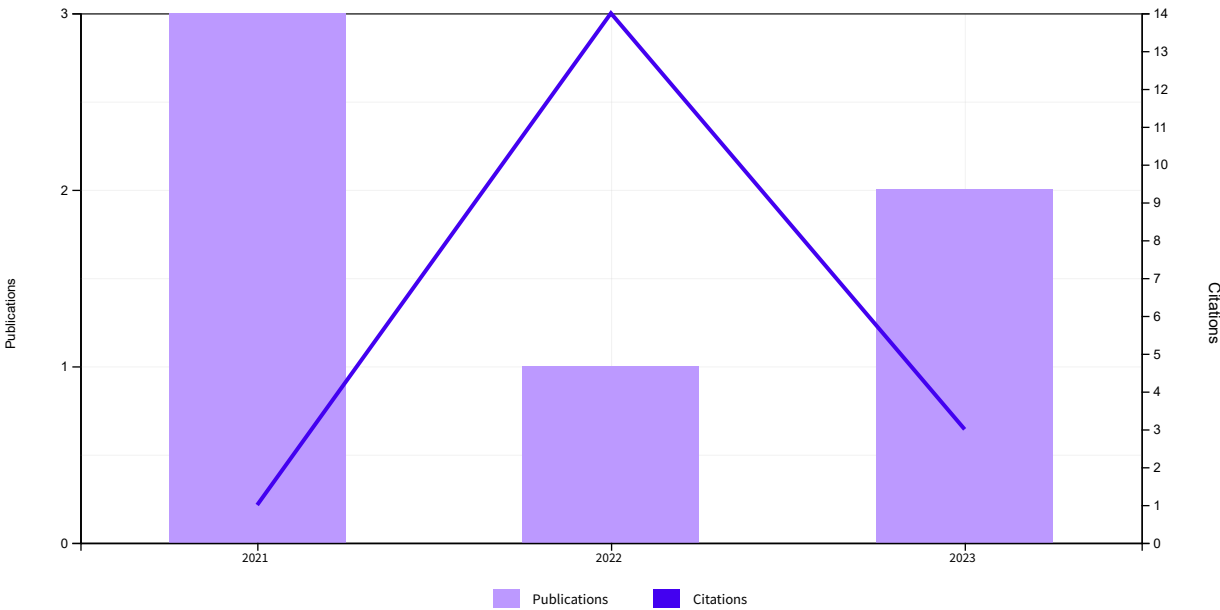
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6 Publications		Citations						
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		2019	2020	2021	2022	2023		
Total		0	0	1	14	3	6	18
1	Cancer-Nano-Interaction: From Cellular Uptake to Mechanobiological Responses	0	0	0	6	2	2.67	8
	Kashani, AS and Packirisamy, M Sep 2021 INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 22 (17)							



⊖ 2 Silica Coating of Ferromagnetic Iron Oxide Magnetic Nanoparticles Significantly Enhances Their Hyperthermia Performances for Efficiently Inducing Cancer Cells Death In Vitro Iacovita, C; Fizesan, I; (...); Lucaciu, CM Dec 2021 PHARMACEUTICS 13 (12)	0	0	1	5	0	2	6
⊖ 3 The influence of IONPs core size on their biocompatibility and activity in in vitro cellular models Janik-Olchawa, N; Drozd, A; (...); Chwiej, J Nov 8 2021 SCIENTIFIC REPORTS 11 (1)  Enriched Cited References	0	0	0	3	1	1.33	4
⊖ 4 Insights into the Molecular Mechanisms Regulating Cell Behavior in Response to Magnetic Materials and Magnetic Stimulation in Stem Cell (Neurogenic) Differentiation Mocanu-Dobranici, AE; Costache, M and Dinescu, S Feb 2023 INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 24 (3)	0	0	0	0	0	0	0
⊖ 5 Silica nanoparticles suppressed the spermatogenesis via downregulation of miR-450b-3p by targeting Layilin in spermatocyte of mouse* Zhou, GO; Wang, J; (...); Zhou, XO Feb 1 2023 ENVIRONMENTAL POLLUTION 318	0	0	0	0	0	0	0
⊖ 6 Different Strategies to Attenuate the Toxic Effects of Zinc Oxide Nanoparticles on Spermatogonia Cells Vassal, M; Pereira, CD; (...); Rebelo, S Oct 2022 NANOMATERIALS 12 (20)  Enriched Cited References	0	0	0	0	0	0	0

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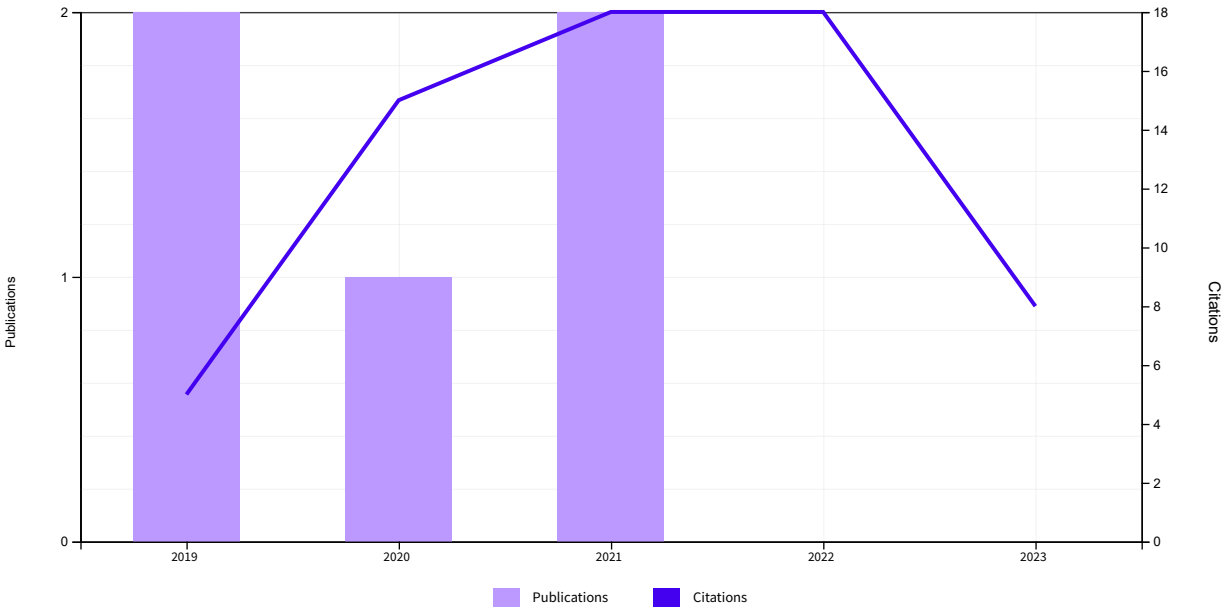
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5 Publications Sort by: Citations: highest first ▾ 1 of 1		Citations						
		< Previous year Next year >					Average per year	Total
		2019	2020	2021	2022	2023		
Total		5	15	18	18	8	12.8	64
1	The synthesis of water-soluble phosphate pillar[5]arenes functionalized graphene as a fluorescent probe for sensitive detection of paraquat	4	6	9	5	3	5.4	27

	Tan, X.P.; Wu, Y.; (...); Gou, Q Apr 1 2019 TALANTA 195 , pp.472-479							
 2	Polymerase chain reaction combined with fluorescent lateral flow immunoassay based on magnetic purification for rapid detection of canine parvovirus 2 Zhuang, L.L.; Ji, Y.X.; (...); Zhang, Y Jan 17 2019 BMC VETERINARY RESEARCH 15	1	8	4	6	1	4	20
 3	Lateral flow fluorescent immunoassay based on isothermal amplification for rapid quantitative detection of Salmonella spp. Zhuang, L.L.; Gong, J.S.; (...); Zhang, Y Mar 21 2020 ANALYST 145 (6) , pp.2367-2377	0	1	4	3	0	2	8
 4	Automated Synthesis of Heavily Phosphorylated Peptides Grunhaus, D.; Friedler, A and Hurevich, M Jul 15 2021 EUROPEAN JOURNAL OF ORGANIC CHEMISTRY 2021 (26) , pp.3737-3742	0	0	0	3	2	1.67	5
 5	Repetitive Synthesis of High-Molecular-Weight Hyaluronic Acid with Immobilized Enzyme Cascades Gottschalk, J.; Assmann, M.; (...); Elling, L May 6 2022 Jul 2021 (Early Access) CHEMSUSCHEM 15 (9)	0	0	1	1	2	1.33	4

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Citations of Covalent biofunctionalization of chitosan nanofibers with trypsin for high enzyme stability

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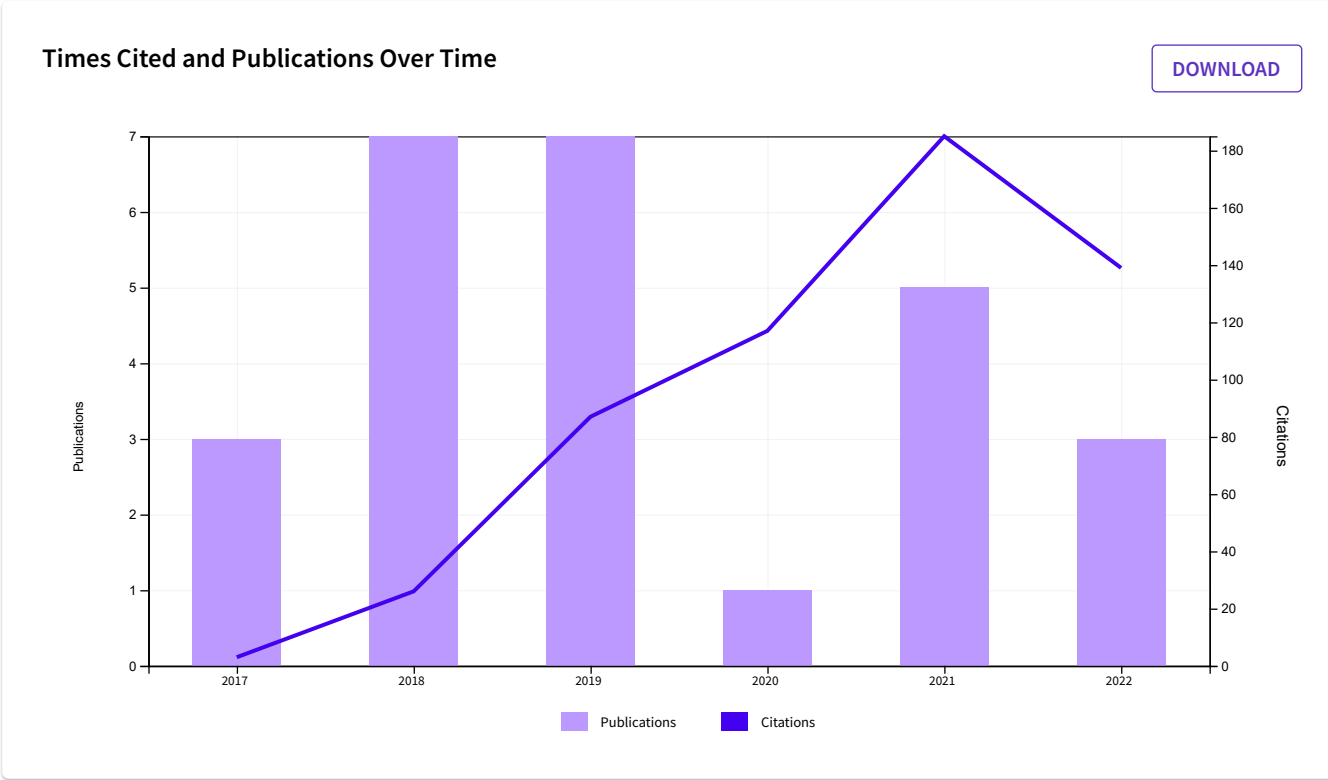
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Total		26	87	117	185	139	92.83	557
1	Multi-point enzyme immobilization, surface chemistry, and novel platforms: a paradigm shift in biocatalyst design	0	40	31	43	27	35.25	141
	Bilal, M; Asgher, M; (...); Iqbal, HMN Feb 17 2019 CRITICAL REVIEWS IN BIOTECHNOLOGY 39 (2) , pp.202-219							



⊖ 2	Mechanism of Action of Electrospun Chitosan-Based Nanofibers against Meat Spoilage and Pathogenic Bacteria Arkoun, M; Daigle, F; (...); Ajji, A Apr 2017 MOLECULES 22 (4)	8	9	6	16	13	8.67	52
⊖ 3	Recent advances in post-modification strategies of polymeric electrospun membranes Sagitha, P; Reshmi, CR; (...); Sujith, A Aug 2018 EUROPEAN POLYMER JOURNAL 105, pp.227-249	1	7	11	19	10	9.6	48
⊖ 4	Fabrication of electrospun chitosan/cellulose nanofibers having adsorption property with enhanced mechanical property Phan, DN; Lee, H; (...); Kim, JS Feb 2019 CELLULOSE 26 (3), pp.1781-1793	0	2	11	24	10	11.75	47
⊖ 5	Reconstructing nanofibers from natural polymers using surface functionalization approaches for applications in tissue engineering, drug delivery and biosensing devices Sofi, HS; Ashraf, R; (...); Sheikh, FA Jan 1 2019 MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS 94, pp.1102-1124	0	4	17	10	10	10.25	41
⊖ 6	Extraction and characterization of chitosan from prawn shell waste and its conjugation with cutinase for enhanced thermo-stability Muley, AB; Chaudhari, SA; (...); Singhal, RS May 2018 INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 111, pp.1047-1058	5	11	6	15	3	8	40
⊖ 7	Chitin and chitosan on the nanoscale Jin, T; Liu, T; (...); Moores, A Jul 1 2021 May 2021 (Early Access) NANOSCALE HORIZONS 6 (7), pp.505-542	0	0	0	7	21	14	28
⊖ 8	Biopolymers conjugated with magnetite as support materials for trypsin immobilization and protein digestion Zdarta, J; Anteck, K; (...); Jesionowski, T Sep 1 2018 COLLOIDS AND SURFACES B-BIOINTERFACES 169, pp.118-125	4	5	4	8	6	5.4	27
⊖ 9	Acid-resistant enzyme@MOF nanocomposites with mesoporous silica shells for enzymatic applications in acidic environments Feng, YX; Zhong, L; (...); Cui, JD Dec 20 2019 JOURNAL OF BIOTECHNOLOGY 306, pp.54-61	0	0	3	8	8	4.75	19
⊖ 10	Surface-Engineered Biocatalytic Composite Membranes for Reduced Protein Fouling and Self-Cleaning Vanangamudi, A; Saeki, D; (...); Yang, X Aug 15 2018 ACS APPLIED MATERIALS & INTERFACES 10 (32), pp.27477-27487	1	2	5	7	2	3.4	17



11	A novel magnetic/photoluminescence bifunctional nanohybrid for the determination of trypsin Xia, TT; Ma, Q; (...); Su, XG Aug 1 2017 TALANTA 170 , pp.286-290	4	1	4	5	0	2.5	15
12	Chitosan-based nanofibers for enzyme immobilization Ribeiro, ES; de Farias, BS; (...); Diaz, PS Jul 31 2021 Jun 2021 (Early Access) INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 183 , pp.1959-1970	0	0	0	4	7	5.5	11
13	Chitosan functionalised poly(epsilon-caprolactone) nanofibrous membranes as potential anti-adhesive barrier films Mao, Y; Sanbhal, N; (...); Wang, L Oct 2019 REACTIVE & FUNCTIONAL POLYMERS 143	0	0	5	5	1	2.75	11
14	Immobilization of Carboxypeptidase A into Modified Chitosan Matrixes by Covalent Attachment Manzo, RM; Ceruti, RJ; (...); Mammarella, EJ Aug 2018 APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY 185 (4) , pp.1029-1043	1	1	4	3	1	2	10
15	Enhancement of C-phycoerythrin purity using negative chromatography with chitosan-modified nanofiber membrane Ng, JS; Tang, MSY; (...); Chang, YK 14th International Chitin and Chitosan Conference (ICCC) / 12th Asia-Pacific Chitin and Chitosan Symposium (APCCS) Jul 1 2019 INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 132 , pp.615-628	0	0	5	3	1	2.25	9
16	Bamboo (Phyllostachys pubescens) as a Natural Support for Neutral Protease Immobilization Cao, LP; Wang, JJ; (...); Liu, YH Sep 2018 APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY 186 (1) , pp.109-121	1	4	0	2	0	1.4	7
17	Hyaluronic acid and chitosan-based electrospun wound dressings: Problems and solutions Valachova, K; El Meligy, MA and Soltes, L May 1 2022 INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 206 , pp.74-91	0	0	0	0	6	6	6
18	How to Lengthen the Long-Term Stability of Enzyme Membranes: Trends and Strategies Yabuki, S Feb 2017 CATALYSTS 7 (2)	1	1	2	0	0	1	6
	Tailor-made novel electrospun polystyrene/poly(D,L-lactide-co-glycolide) for oxidoreductases immobilization: Improvement of catalytic properties under extreme reaction conditions	0	0	0	0	5	2.5	5





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[Jankowska, K; Su, ZR; \(...\); Jesionowski, T](#)Sep 2021 | Jun 2021 (Early Access) | [BIOORGANIC CHEMISTRY](#) 114

Enriched Cited References

The bonding nature of the chemical interaction between trypsin and

26 Publications

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2018	2019	2020	2021	2022				

⊖ 21

Synthesis of dual-functionalized poly(vinyl alcohol)/poly(acrylic acid) electrospun nanofibers with enzyme and copper ion for enhancing anti-biofouling activities

[Park, JA; Lee, SC and Kim, SB](#)Jul 2019 | [JOURNAL OF MATERIALS SCIENCE](#) 54 (13) , pp.9969-9982

0	0	2	1	2	1.25	5
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⊖ 22

Dual Functional Ultrafiltration Membranes with Enzymatic Digestion and Thermo-Responsivity for Protein Self-Cleaning

[Vanangamudji, A; Dumez, LF; \(...\); Yang, X](#)Sep 2018 | [MEMBRANES](#) 8 (3)

0	0	0	2	1	0.6	3
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⊖ 23

A nano chitosan membrane barrier prepared via Nanospider technology with non-toxic solvent for peritoneal adhesions' prevention

[Zhang, S; Xu, ZY; \(...\); Wei, CZ](#)Aug 2021 | Apr 2021 (Early Access) | [JOURNAL OF BIOMATERIALS APPLICATIONS](#) 36 (2) , pp.321-331

Enriched Cited References

0	0	0	2	0	1	2
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⊖ 24

ENZYME IMMOBILIZATION: CONCEPTS AND EFFECTS ON PROTEOLYSIS

[Furlani, JL; Amaral, BS; \(...\); Cass, OB](#)Apr 2020 | [QUIMICA NOVA](#) 43 (4) , pp.463-473

0	0	1	0	1	0.67	2
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⊖ 25

The Chemistry and Applications of Metal-Organic Frameworks (MOFs) as Industrial Enzyme Immobilization Systems

[Silva, ARM; Alexandre, JYNH; \(...\); dos Santos, JCS](#)Jul 2022 | [MOLECULES](#) 27 (14)

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⊖ 26

Advances in Electrospun Hybrid Nanofibers for Biomedical Applications

[Nirwan, VP; Kowalczyk, T; \(...\); Fahmi, A](#)Jun 2022 | [NANOMATERIALS](#) 12 (11)

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Citations of Application of trypsin Fe3O4@SiO2 core/shell nanoparticles for protein digestion

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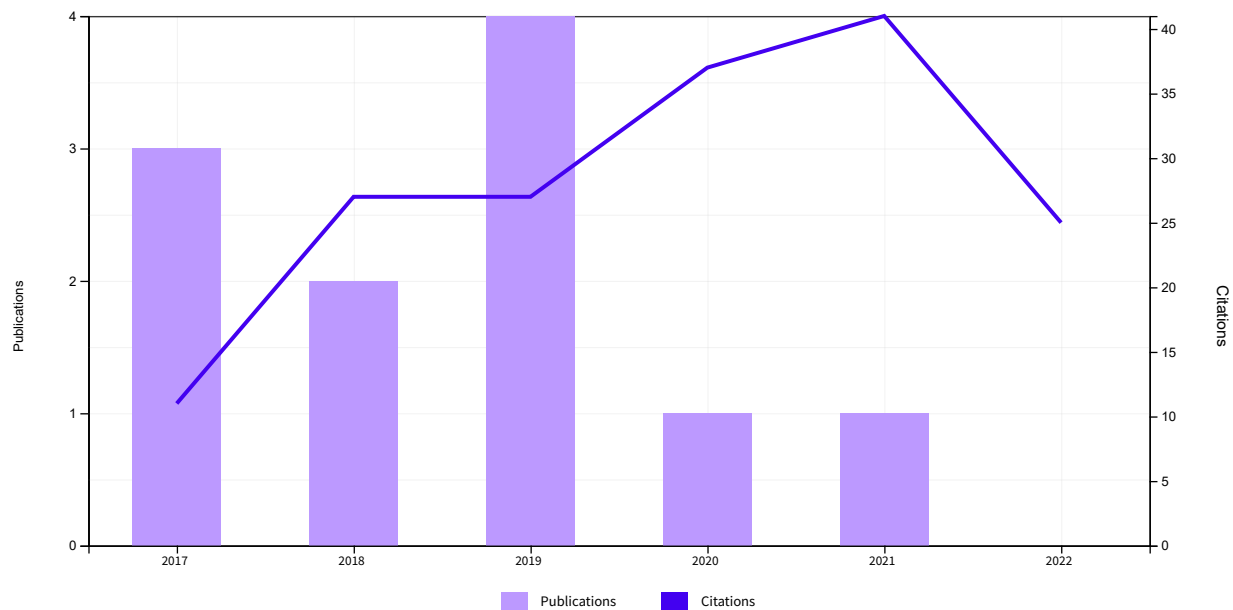
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		Total	27	27	37	41	25	28.17	169
⊖ 1	Covalent immobilization of trypsin onto modified magnetite nanoparticles and its application for casein digestion	13	9	9	4	6	7.33	44	50 
	Atacan, K ; Cakiroglu, B and Ozacar, M								

⊖

2

Amino Acid Coated Superparamagnetic Iron Oxide Nanoparticles for Biomedical Applications Through a Novel Efficient Preparation Method

Karimzadeh, J; Aghazadeh, M; (...); Gharailou, D

May 2017 | JOURNAL OF CLUSTER SCIENCE28 (3) , pp.1259-1271

7

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3

Biopolymers conjugated with magnetite as support materials for trypsin immobilization and protein digestion

Zdarta, J; Anteck, K; (...); Jesionowski, T

Sep 1 2018 | COLLOIDS AND SURFACES B-BIOINTERFACES169 , pp.118-125

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4

Studies of malachite green adsorption on covalently functionalized Fe3O4@SiO2-graphene oxides core-shell magnetic microspheres

Zhang, J; Liu, M; (...); Wang, HY

May 2017 | JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY82 (2) , pp.424-431

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Effective adsorptive performance of Fe3O4@SiO2 core shell spheres for methylene blue: kinetics, isotherm and mechanism

Subhan, E; Aslam, S; (...); Naeem, M

Oct 2019 | JOURNAL OF POROUS MATERIALS26 (5) , pp.1465-1474

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6

Anchored Ni-dimethylglyoxime complex on Fe3O4@SiO2 core/shell nanoparticles for the clean catalytical synthesis of dicoumarols

Hassanloie, N; Pesyan, NN and Sheykhaeji, G

Jan 2020 | Nov 2019 (Early Access) | APPLIED ORGANOMETALLIC CHEMISTRY34 (1)

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7

Synaptic learning functionalities of inverse biomemristive device based on trypsin for artificial intelligence application

Desai, TR; Dongale, TD; (...); Kim, TG

Mar-apr 2021 | Feb 2021 (Early Access) | JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T11 , pp.1100-1110

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11 Publications

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Aug 2019 |

MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS

844 , pp.35-45

Citations

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20182019202020212022

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5

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9

Metabolic fate and subchronic biological effects of core-shell structured Fe3O4@SiO2-NH2 nanoparticles

Chen, YL; Li, JQ; (...); Chen, Z

50

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MENU



2018 NANOTOXICOLOGY 12 (6) , pp.621-636								
⊖ 10	Nanomaterials in Protein Sample Preparation Gonzalez-Garcia, E; Marina, ML and Garcia, MC Jul 2 2020 SEPARATION AND PURIFICATION REVIEWS 49 (3) , pp.229-264	0	0	1	3	0	1.33	4
⊖ 11	Synthesis of biopolymeric particles loaded with phosphorus and potassium: characterisation and release tests Miranda-Villagomez, E; Aguilar-Mendez, MA; (...); Trejo-Tellez, LI Jul 2019 JET NANOBIO TECHNOLOGY 13 (5) , pp.493-497	0	1	1	0	0	0.5	2

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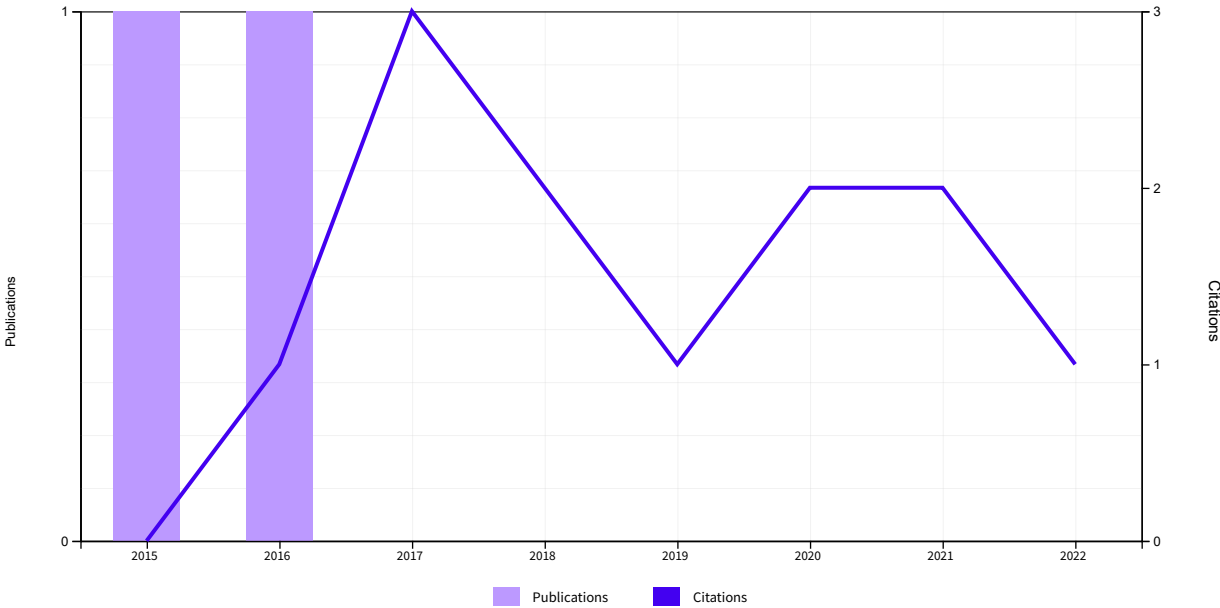
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		< Previous year Next year >						
Total		2018	2019	2020	2021	2022		
		2	1	2	2	1	1.71	12
Analysis of the thermal properties of a heat flow chip calorimeter using CFD		1	1	1	1	1	1.14	8
Choinski, D; Wodolazski, A; (...); Niedzwiedz, M								
Mar 5 2016 APPLIED THERMAL ENGINEERING 96 , pp.508-518								

⊖ 2

Determination of enzymatic reaction enthalpy by simultaneous calorimetry and spectrophotometry

[Zhang, CN](#); [Yuan, M](#); (...); [Cao, H](#)

Apr 2015 | [JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY](#) 120 (1) , pp.283-288

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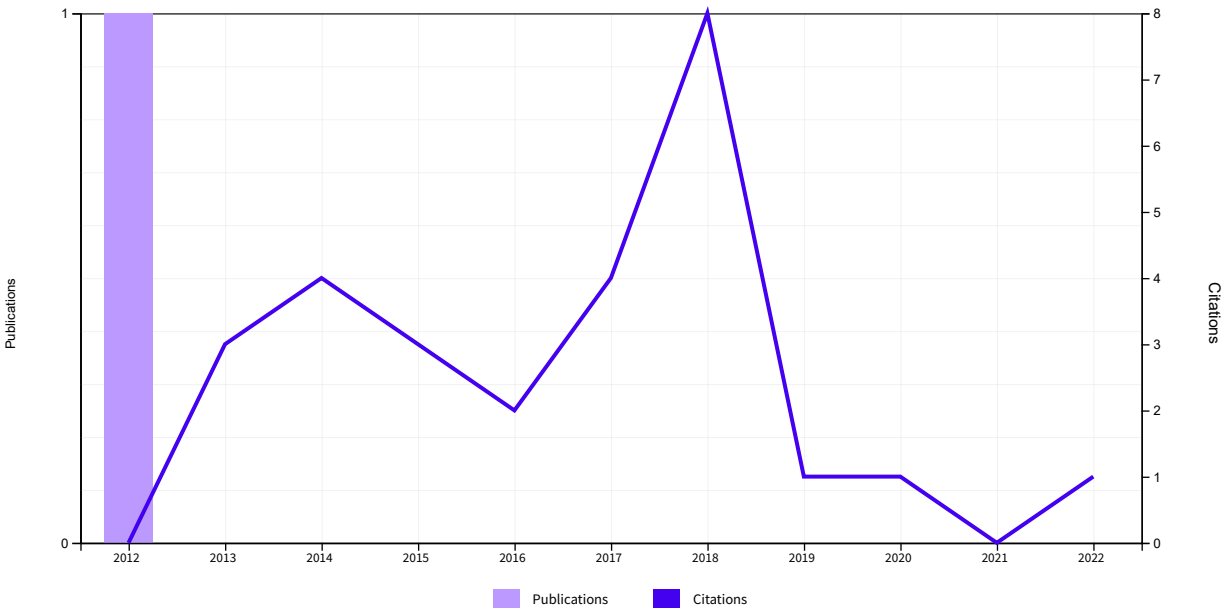
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1 Publication		Citations						
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		2018	2019	2020	2021	2022		
Total		8	1	1	0	1	2.45	27
1	Development of a magnetic immunosorbent for on-chip preconcentration of amyloid beta isoforms: Representatives of Alzheimer's disease biomarkers	8	1	1	0	1	2.45	27
	Svobodova, Z; Mohamadi, MR; (...); Bilkova, Z							

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Citation Report

 Citations of Epitope mapping of allergen ovalbumin using biofunctionalized magnetic beads packed in microfluidic channels The first step towards epitope-based vaccines

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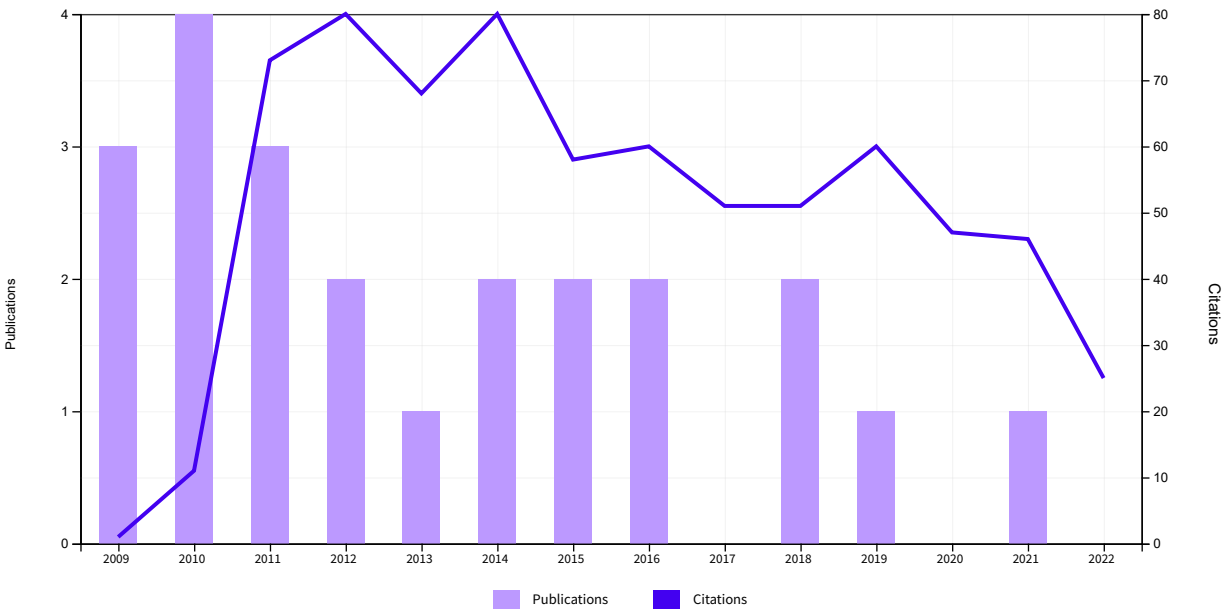
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23 Publications	Sort by: Citations: highest first ▼	Citations						
		< Previous year Next year >					Average per year	Total
		2018	2019	2020	2021	2022		
Total		51	60	47	46	25	50.86	712
Latest Developments in Micro Total Analysis Systems		15	18	10	14	7	26.54	345
Arora, A; Simone, G; (...); Manz, A								

	Jun 15 2010 ANALYTICAL CHEMISTRY 82 (12) , pp.4830-4847							
⊖ 2	Magnetic forces produced by rectangular permanent magnets in static microsystems Gassner, AL; Abonnenc, M; (...); Girault, HH 2009 LAB ON A CHIP 9 (16) , pp.2356-2363	1	6	3	2	1	4.14	58
⊖ 3	A microfluidic device with microbead array for sensitive virus detection and genotyping using quantum dots as fluorescence labels Zhang, H; Xu, T; (...); Yang, MS Jul 15 2010 BIOSENSORS & BIOELECTRONICS 25 (11) , pp.2402-2407	6	1	1	4	1	3.69	48
⊖ 4	MASS SPECTROMETRIC EPI TOPE MAPPING Opuni, KFM; Al-Majdoub, M; (...); Glocker, MO Mar-apr 2018 MASS SPECTROMETRY REVIEWS 37 (2) , pp.229-241	4	15	13	10	5	9.2	46
⊖ 5	Detection of ovalbumin in egg white, whole egg and incurred pasta using LC-ESI-MS/MS and ELISA Azarnia, S; Boye, JL; (...); Sabik, H Jul 2013 FOOD RESEARCH INTERNATIONAL 52 (1) , pp.526-534	5	5	3	4	2	3.3	33
⊖ 6	An integrated microfluidic chip for immunocapture, preconcentration and separation of beta-amyloid peptides Mohamadi, RM; Svobodova, Z; (...); Viovy, JL Sep 2015 Biomicrofluidics 9 (5)	6	6	5	2	1	3.63	29
⊖ 7	New Monodisperse Magnetic Polymer Microspheres Biofunctionalized for Enzyme Catalysis and Bioaffinity Separations Horak, D; Kucerovala, J; (...); Bilkova, Z May 2012 MACROMOLECULAR BIOSCIENCE 12 (5) , pp.647-655	1	2	3	0	0	2.64	29
⊖ 8	A review on emerging frontiers of house dust mite and cockroach allergy research Patel, S and Meher, BR Nov-dec 2016 ALLERGOLOGIA ET IMMUNOPATHOLOGIA 44 (6) , pp.580-593	5	5	3	1	2	2.43	17
⊖ 9	Use of magnetic hydrazide-modified polymer microspheres for enrichment of Francisella tularensis glycoproteins Horak, D; Balonova, L; (...); Stulik, J 2012 SOFT MATTER 8 (9) , pp.2775-2786	1	0	1	0	0	1.55	17
⊖ 10	Immunomagnetic sulfonated hypercrosslinked polystyrene microspheres for electrochemical detection of proteins Salek, P; Korecka, L; (...); Bilkova, Z 2011 JOURNAL OF MATERIALS CHEMISTRY 21 (38) , pp.14783-14792	2	0	0	2	0	1.17	14



⊖ 11	Bioanalytical methods for food allergy diagnosis, allergen detection and new allergen discovery Gasilova, N and Girault, HH 2015 BIOANALYSIS 7 (9) , pp.1175-1190	3	1	2	0	0	1.5	12
⊖ 12	Advances in epitope mapping technologies for food protein allergens: A review Zhou, FL; He, SD; (...); Zhang, Y Jan 2021 TRENDS IN FOOD SCIENCE & TECHNOLOGY 107 , pp.226-239	0	0	0	4	6	5.5	11
⊖ 13	A novel strategy for the rapid preparation and isolation of intact immune complexes from peptide mixtures Al-Majdoub, M; Opuni, KFM; (...); Glocker, MO Sep 2014 JOURNAL OF MOLECULAR RECOGNITION 27 (9) , pp.566-574	1	1	2	0	0	1	9
⊖ 14	Disulfide-related proteomic studies on food allergens Yano, H Oct 2009 EXPERT REVIEW OF PROTEOMICS 6 (5) , pp.563-571	0	0	0	0	0	0.64	9
⊖ 15	Identification of Carbonic Anhydrase I Immunodominant Epitopes Recognized by Specific Autoantibodies Which Indicate an Improved Prognosis in Patients with Malignancy after Autologous Stem Cell Transplantation Skultety, L; Jankovicova, B; (...); Bilkova, Z Oct 2010 JOURNAL OF PROTEOME RESEARCH 9 (10) , pp.5171-5179	0	0	0	1	0	0.62	8
⊖ 16	Ring magnets for magnetic beads trapping in a capillary Gassner, AL; Morandini, J; (...); Girault, HH Mar 2011 ANALYTICAL METHODS 3 (3) , pp.614-621	0	0	0	0	0	0.42	5
⊖ 17	Degranulation of basophilic leukemia cells on branched-chain peptide array with an OVA-DNP double epitope Sugiura, H; Okazaki, N; (...); Okochi, M Jun 15 2014 BIOCHEMICAL ENGINEERING JOURNAL 87 , pp.8-14	0	0	1	1	0	0.44	4
⊖ 18	Application of Magnetic Control Technique in Microfluidic Chips Shen, YQ; Yao, B and Fang, Q Jan 2010 PROGRESS IN CHEMISTRY 22 (1) , pp.133-139	0	0	0	0	0	0.31	4
⊖ 19	Continuous-Flow ATP amplification system on a chip Satoh, T; Shinoda, Y; (...); Murakami, Y Oct 12 2009 SENSORS AND ACTUATORS B-CHEMICAL 142 (1) , pp.118-122	0	0	0	0	0	0.29	4
⊖ 20	Difficulties associated with the structural analysis of proteins susceptible to form aggregates: The case of Tau protein as a biomarker of Alzheimer's disease	1	0	0	0	0	0.29	2



	Hromadkova, L; Kupcik, R; (...); Bilkova, Z Feb 2016 JOURNAL OF SEPARATION SCIENCE 39 (4) , pp.799-807							
21	Novel mutant P277 peptide VP to ameliorate atherogenic side-effects and to preserve anti-diabetic effects in NOD mice Zhang, YF; Lu, SP; (...); Jin, L Oct 15 2018 EXPERIMENTAL CELL RESEARCH 371 (2) , pp.399-408	0	0	0	1	0	0.2	1
22	Bubble cell for magnetic bead trapping in capillary electrophoresis Gassner, AL; Proczek, G and Girault, HH Dec 2011 ANALYTICAL AND BIOANALYTICAL CHEMISTRY 401 (10) , pp.3239-3248	0	0	0	0	0	0.08	1
23	Simple Fabrication of Structured Magnetic Metallic Nano-Platelets for Bio-Analytical Applications Novotny, J; Juskova, P; (...); Foret, F Feb 2019 MICROMACHINES 10 (2)	0	0	0	0	0	0	0

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Citations of Magnetic proteinase K reactor as a new tool for reproducible limited protein digestion

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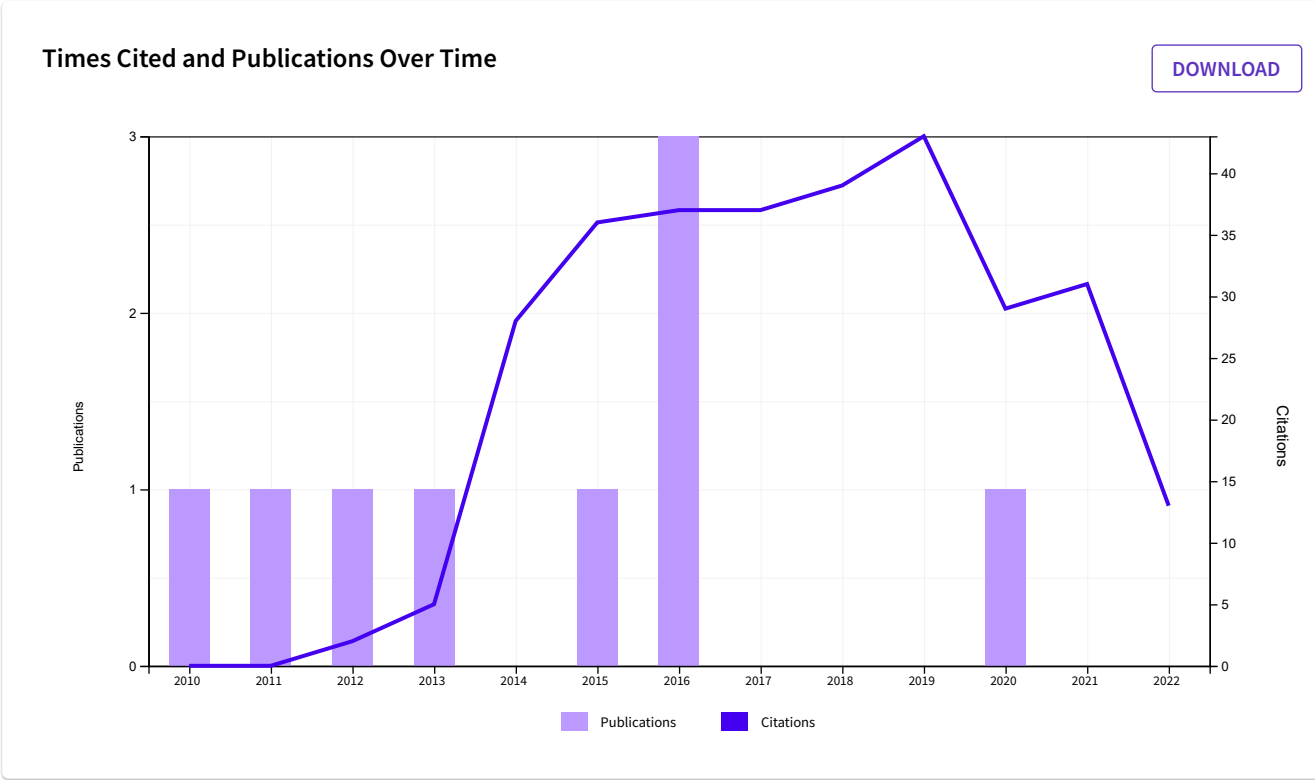
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Publications
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Total
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297 Analyze
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300
Total
297
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33.33
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8
H-Index



Total		39	43	29	31	13	27.27	300
1	Functionalized magnetic nanoparticles for sample preparation in proteomics and peptidomics analysis	15	17	7	7	7	13.8	138
	Li, Y; Zhang, XM and Deng, CH 2013 CHEMICAL SOCIETY REVIEWS 42 (21) , pp.8517-8539							



MENU 9 Publications Sort by: Citations: highest first ▼ < 1 of 1 >	2	Magnetic nanoparticles as a tool for the immobilization/stabilization of hydrolases and their applications: An overview Husain, Q Dec 15 2016 BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY 6 (6) , pp.1585-1606	10	12	3	7	4	5.57	39
	3	Techniques for quantitative LC-MS/MS analysis of protein therapeutics: advances in enzyme digestion and immunocapture Fung, EN; Bryan, P and Kozhich, A Apr 2016 BIOANALYSIS 8 (8) , pp.847-856	8	5	7	6	1	4.14	29
	4	New Monodisperse Magnetic Polymer Microspheres Biofunctionalized for Enzyme Catalysis and Bioaffinity Separations Horak, D; Kucerova, J ; (...); Bilkova, Z May 2012 MACROMOLECULAR BIOSCIENCE 12 (5) , pp.647-655	1	2	3	0	0	2.64	29
	5	Stable and Simple Immobilization of Proteinase K Inside Glass Tubes and Microfluidic Channels Kuchler, A; Bleich, JN ; (...); Walde, P Nov 25 2015 ACS APPLIED MATERIALS & INTERFACES 7 (46) , pp.25970-25980	2	5	4	3	0	3.25	26
	Citations < Previous year Next year > 20182019202020212022 Average per yearTotal								
	7	Proteinase K activity determination with beta-galactosidase as sensitive macromolecular substrate Gheczy, N; Kuchler, A and Walde, P Nov 15 2016 ANALYTICAL BIOCHEMISTRY 513 , pp.54-60	1	2	1	2	0	1.29	9
	8	Hydrophilic spacer-arm containing magnetic nanoparticles for immobilization of proteinase K: Employment for speciation of proteins for mass spectrometry-based analysis Bayramoglu, G; Kayili, HM ; (...); Arica, MY Jan 1 2020 TALANTA 206	0	0	4	3	1	2.67	8
	9	Identification of Carbonic Anhydrase I Immunodominant Epitopes Recognized by Specific Autoantibodies Which Indicate an Improved Prognosis in Patients with Malignancy after Autologous Stem Cell Transplantation Skultety, L; Jankovicova, B ; (...); Bilkova, Z Oct 2010 JOURNAL OF PROTEOME RESEARCH 9 (10) , pp.5171-5179	0	0	0	1	0	0.62	8



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Citations of Bioaffinity magnetic reactor for peptide digestion followed by analysis using bottom-up shotgun proteomics strategy

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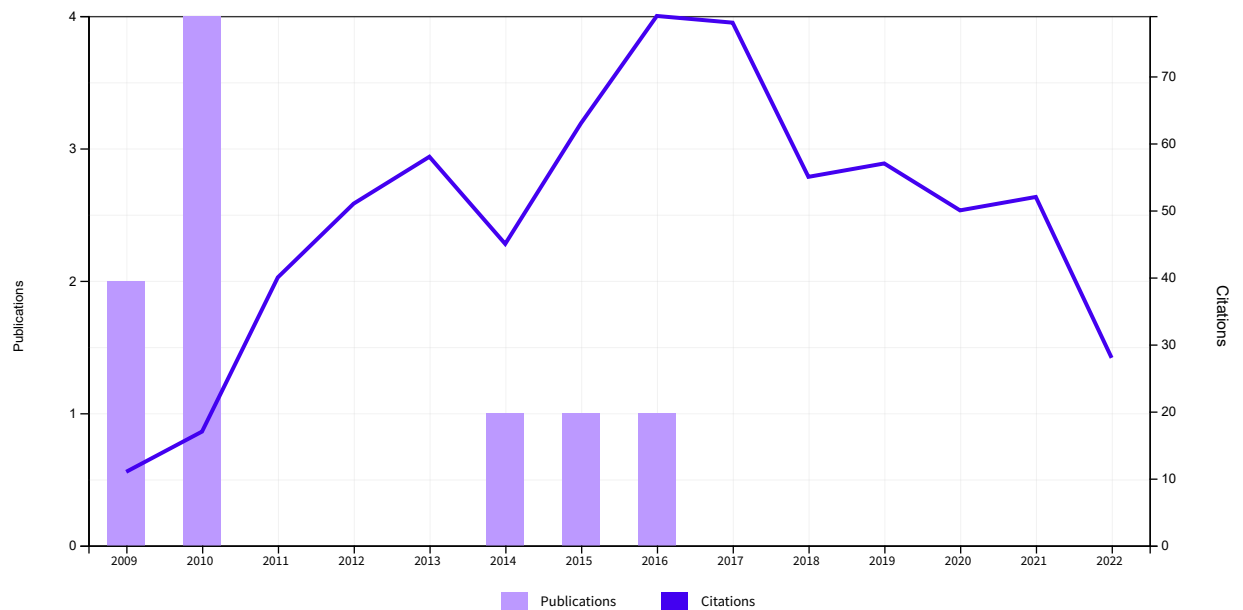
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Total		55	57	50	52	28	48.86	684
Magnetic solids in analytical chemistry: A review Aguilar-Arteaga, K; Rodriguez, JA and Barrado, E		29	27	24	28	14	25.46	331

Aug 3 2010 ANALYTICA CHIMICA ACTA 674 (2) , pp.157-165																													
⊖ 2	Highly Efficient Enzyme Reactors Containing Trypsin and Endoproteinase LysC Immobilized on Porous Polymer Monolith Coupled to MS Suitable for Analysis of Antibodies Krenkova, J; Lacher, NA and Svec, F Mar 1 2009 ANALYTICAL CHEMISTRY 81 (5) , pp.2004-2012	8	5	6	4	1	10.57	148																					
⊖ 3	Microscale immobilized enzyme reactors in proteomics: Latest developments Safdar, M; Spross, J and Janis, J Jan 10 2014 JOURNAL OF CHROMATOGRAPHY A 1324 , pp.1-10	11	7	9	8	2	7.44	67																					
⊖ 4	Magnetic field assisted fluidization - a unified approach. Part 8. Mass transfer: magnetically assisted bioprocesses Hristov, J Dec 2010 REVIEWS IN CHEMICAL ENGINEERING 26 (3-4) , pp.55-128	3	8	2	4	6	3.69	48																					
⊖ 5	BIOMEDICAL APPLICATIONS OF MAGNETIC NANOPARTICLES Wu, AG; Ou, P and Zeng, LY Oct 2010 NANO 5 (5) , pp.245-270	1	2	4	2	4	3.08	40																					
9 Publications Sort by: Citations: highest first ▼ < 1 of 1 >		Citations <table><tr><th colspan="5">< Previous year</th><th>Next year ></th><th rowspan="2">Average per year</th><th rowspan="2">Total</th></tr><tr><th>2018</th><th>2019</th><th>2020</th><th>2021</th><th>2022</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							< Previous year					Next year >	Average per year	Total	2018	2019	2020	2021	2022								
< Previous year					Next year >	Average per year	Total																						
2018	2019	2020	2021	2022																									
⊖ 7	Magnetic track array for efficient bead capture in microchannels Abonnenc, M; Gassner, AL; (...); Girault, HH Oct 2009 ANALYTICAL AND BIOANALYTICAL CHEMISTRY 395 (3) , pp.747-757	0	1	1	1	0	0.79	11																					
⊖ 8	Preparation and application of immobilized enzymatic reactors for consecutive digestion with two enzymes Wang, BB; Shangguan, LL; (...); Liu, F Dec 16 2016 JOURNAL OF CHROMATOGRAPHY A 1477 , pp.22-29	0	4	2	3	1	1.57	11																					
⊖ 9	Identification of Carbonic Anhydrase I Immunodominant Epitopes Recognized by Specific Autoantibodies Which Indicate an Improved Prognosis in Patients with Malignancy after Autologous Stem Cell Transplantation Skultety, L; Jankovicova, B; (...); Bilkova, Z Oct 2010 JOURNAL OF PROTEOME RESEARCH 9 (10) , pp.5171-5179	0	0	0	1	0	0.62	8																					

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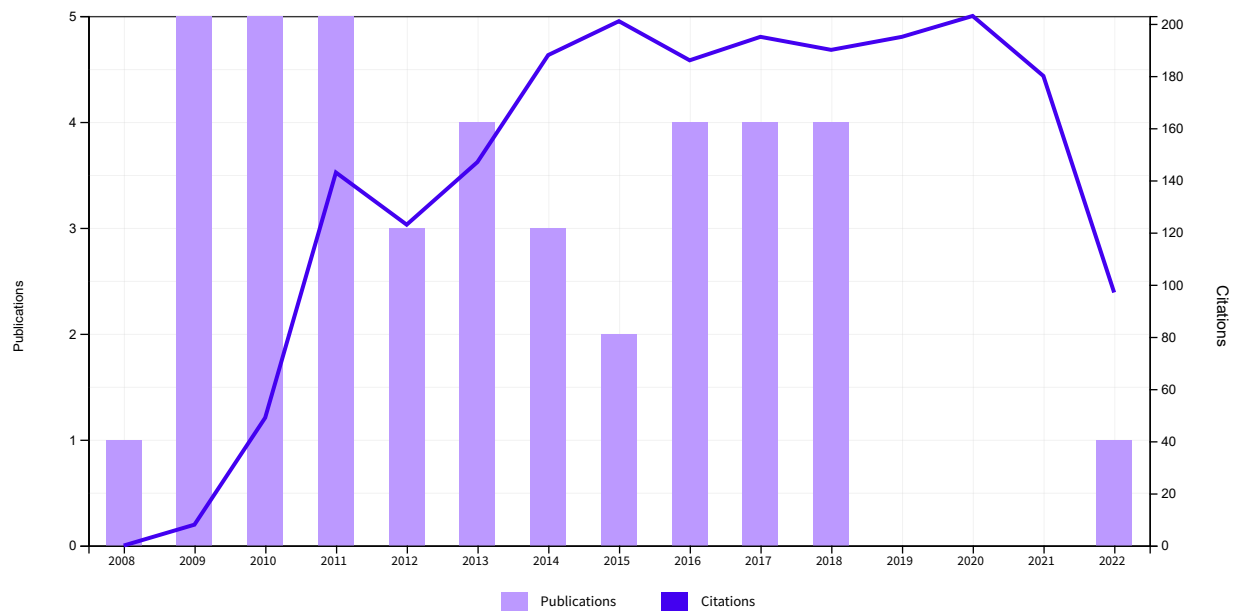
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Total		190	195	203	180	97	150.36	2,105
1	Microfluidic Applications of Magnetic Particles for Biological Analysis and Catalysis	35	35	29	39	17	38.54	501
	Gijjs, MAM; Lacharme, F and Lehmann, U							

	Mar 2010 CHEMICAL REVIEWS 110 (3) , pp.1518-1563							
⊖ 2	Microfluidic designs and techniques using lab-on-a-chip devices for pathogen detection for point-of-care diagnostics Foudeh, AM; Didar, TF; (...); Tabrizian, M 2012 LAB ON A CHIP 12 (18) , pp.3249-3266	43	37	33	37	16	29.55	325
⊖ 3	Microfluidic Systems for Pathogen Sensing: A Review Mairhofer, J; Roppert, K and Ertl, P Jun 2009 SENSORS 9 (6) , pp.4804-4823	17	17	18	18	6	14.36	201
⊖ 4	Developing Continuous-Flow Microreactors as Tools for Synthetic Chemists Geyer, K; Gustafsson, T and Seeberger, PH Sep 16 2009 SYNLETT (15) , pp.2382-2391	3	5	5	3	3	12.29	172
⊖ 5	Microscale immobilized enzyme reactors in proteomics: Latest developments Safdar, M; Spross, J and Janis, J Jan 10 2014 JOURNAL OF CHROMATOGRAPHY A 1324 , pp.1-10	11	7	9	8	2	7.44	67
⊖ 6	On-chip immuno-agglutination assay with analyte capture by dynamic manipulation of superparamagnetic beads Moser, Y; Lehnert, T and Gijs, MAM 2009 LAB ON A CHIP 9 (22) , pp.3261-3267	1	1	3	6	1	3.21	45
⊖ 7	Macroporous Materials as Novel Catalysts for Efficient and Controllable Proteolysis Qian, K; Wan, JJ; (...); Liu, BH Jul 15 2009 ANALYTICAL CHEMISTRY 81 (14) , pp.5749-5756	1	3	3	3	1	4.07	57
⊖ 8	A microfluidic reactor for rapid, low-pressure proteolysis with on-chip electrospray ionization Liuni, P; Rob, T and Wilson, DJ Feb 2010 RAPID COMMUNICATIONS IN MASS SPECTROMETRY 24 (3) , pp.315-320	5	1	4	1	1	4.23	55
⊖ 9	Programmable Magnetic Tweezers and Droplet Microfluidic Device for High-Throughput Nanoliter Multi-Step Assays Ali-Cherif, A; Begolo, S; (...); Malaquin, L 2012 ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 51 (43) , pp.10765-10769	4	5	7	4	6	4.18	46
⊖ 10	The power of solid supports in multiphase and droplet-based microfluidics: towards clinical applications Serra, M; Ferraro, D; (...); Descroix, S Dec 7 2017 LAB ON A CHIP 17 (23) , pp.3979-3999	3	9	13	6	6	6.17	37



⊖ 11	Controlling the Magnetic Field Distribution on the Micrometer Scale and Generation of Magnetic Bead Patterns for Microfluidic Applications Yu, X; Peng, XA; (...); Pang, DW Apr 19 2011 LANGMUIR 27 (8) , pp.5147-5156	3	4	4	2	2	2.92	35
⊖ 12	Three-Dimensional Magnetic Focusing of Superparamagnetic Beads for On-Chip Agglutination Assays Afshar, R; Moser, Y; (...); Gijss, MAM Feb 1 2011 ANALYTICAL CHEMISTRY 83 (3) , pp.1022-1029	2	2	5	1	1	2.83	34
⊖ 13	Microchip Electrophoresis Profiling of A beta Peptides in the Cerebrospinal Fluid of Patients with Alzheimer's Disease Mohamadi, MR; Svobodova, Z; (...); Viovy, JL Sep 15 2010 ANALYTICAL CHEMISTRY 82 (18) , pp.7611-7617	2	3	5	1	1	2.77	36
⊖ 14	Microfluidic magnetic fluidized bed for DNA analysis in continuous flow mode Hernandez-Neuta, J; Pereiro, J; (...); Nilsson, M Apr 15 2018 BIOSENSORS & BIOELECTRONICS 102 , pp.531-539	5	6	7	11	3	6.4	32
⊖ 15	Preparation and characterization of a packed bead immobilized trypsin reactor integrated into a PDMS microfluidic chip for rapid protein digestion Kecsckemeti, A and Gaspar, A May 1 2017 TALANTA 166 , pp.275-283	7	8	9	2	3	4.83	29
⊖ 16	An integrated microfluidic chip for immunocapture, preconcentration and separation of beta-amyloid peptides Mohamadi, RM; Svobodova, Z; (...); Viovy, JL Sep 2015 Biomicrofluidics 9 (5)	6	6	5	2	1	3.63	29
⊖ 17	Development of a magnetic immunosorbent for on-chip preconcentration of amyloid beta isoforms: Representatives of Alzheimer's disease biomarkers Svobodova, Z; Mohamadi, MR; (...); Bilkova, Z Jun 2012 BIOMICROFLUIDICS 6 (2)	8	1	1	0	1	2.45	27
⊖ 18	On-chip tryptic digest with direct coupling to ESI-MS using magnetic particles Le Nel, A; Krenkova, J; (...); Foret, F Dec 2008 ELECTROPHORESIS 29 (24) , pp.4944-4947	2	2	0	0	1	1.8	27
⊖ 19	Stable and Simple Immobilization of Proteinase K Inside Glass Tubes and Microfluidic Channels Kuchler, A; Bleich, JN; (...); Walde, P Nov 25 2015 ACS APPLIED MATERIALS & INTERFACES 7 (46) , pp.25970-25980	2	5	4	3	0	3.25	26



⊖ 20	New non-covalent strategies for stable surface treatment of thermoplastic chips Perez-Toralla, K; Champ, J; (...); Descroix, S 2013 LAB ON A CHIP 13 (22) , pp.4409-4418	3	2	2	3	2	2.6	26
⊖ 21	On chip magnetic actuator for batch-mode dynamic manipulation of magnetic particles in compact lab-on-chip Fulcrand, R; Bancaud, A; (...); Gue, AM Dec 15 2011 SENSORS AND ACTUATORS B-CHEMICAL 160 (1) , pp.1520-1528	2	0	5	1	1	2.17	26
⊖ 22	A Fluidic Device for Immunomagnetic Separation of Foodborne Bacteria Using Self-Assembled Magnetic Nanoparticle Chains Cai, GZ; Wang, SY; (...); Lin, JH Dec 2018 MICROMACHINES 9 (12)	0	6	10	4	4	4.8	24
⊖ 23	Particle-based immobilized enzymatic reactors in microfluidic chips Kecsckemeti, A and Gaspar, A Apr 1 2018 TALANTA 180 , pp.211-228	5	5	5	5	3	4.6	23
⊖ 24	Magnetic fluidized bed for solid phase extraction in microfluidic systems Pereiro, I; Tabnaoui, S; (...); Malaquin, L May 7 2017 LAB ON A CHIP 17 (9) , pp.1603-1615	6	3	2	5	4	3.67	22
⊖ 25	Challenges in the Use of Compact Disc-Based Centrifugal Microfluidics for Healthcare Diagnostics at the Extreme Point of Care Gilmore, J; Islam, M and Martinez-Duarte, R Apr 2016 MICROMACHINES 7 (4)	1	8	5	2	1	3.14	22
⊖ 26	A cyclic-olefin-copolymer microfluidic immobilized-enzyme reactor for rapid digestion of proteins from dried blood spots Wouters, B; Dapic, J; (...); Schoenmakers, PJ Mar 31 2017 JOURNAL OF CHROMATOGRAPHY A 1491 , pp.36-42	3	4	3	3	4	3	18
⊖ 27	Surface Reaction Limited Model for the Evaluation of Immobilized Enzyme on Planar Surfaces Lee, CC; Chiang, HP; (...); Yang, YS Apr 1 2009 ANALYTICAL CHEMISTRY 81 (7) , pp.2737-2744	0	1	2	1	0	1.21	17
⊖ 28	Efficient proteolysis strategies based on microchip bioreactors Liu, S; Bao, HM; (...); Chen, G Apr 26 2013 JOURNAL OF PROTEOMICS 82 , pp.1-13	2	1	0	0	0	1.6	16
		1	0	1	3	1	1.67	



29	Immobilization of Lambda Exonuclease onto Polymer Micropillar Arrays for the Solid-Phase Digestion of dsDNAs Oliver-Calixte, NJ; Uba, FI; (...); Soper, SA May 6 2014 ANALYTICAL CHEMISTRY 86 (9) , pp.4447-4454																												
30	Detection of blood-transmissible agents: can screening be miniaturized? Fournier-Wirth, C; Jaffrezic-Renault, N and Coste, J Sep 2010 TRANSFUSION 50 (9) , pp.2032-2045	0	1	0	0	0	0.85	11																					
31	Future of Protease Activity Assays Wysocka, M and Lesner, A Feb 2013 CURRENT PHARMACEUTICAL DESIGN 19 (6) , pp.1062-1067	1	0	0	0	0	1	10																					
32	Proteinase K activity determination with beta-galactosidase as sensitive macromolecular substrate Gheczy, N; Kuchler, A and Walde, P Nov 15 2016 ANALYTICAL BIOCHEMISTRY 513 , pp.54-60	1	2	1	2	0	1.29	9																					
33	On-a-chip tryptic digestion of transthyretin: a step toward an integrated microfluidic system for the follow-up of familial transthyretin amyloidosis Bataille, J; Viode, A; (...); Le Potier, J Mar 7 2018 ANALYST 143 (5) , pp.1077-1086	2	3	1	1	1	1.6	8																					
34	Magnetic Particle Plug-Based Assays for Biomarker Analysis Phurimsak, C; Tarn, MD and Pamme, N May 2016 MICROMACHINES 7 (5)	0	1	0	3	2	1.14	8																					
41 Publications Sort by: Citations: highest first < 1 of 1 >		Citations <table><tr><th colspan="5">< Previous year</th><th>Next year ></th><th rowspan="2">Average per year</th><th rowspan="2">Total</th></tr><tr><th>2018</th><th>2019</th><th>2020</th><th>2021</th><th>2022</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							< Previous year					Next year >	Average per year	Total	2018	2019	2020	2021	2022								
< Previous year					Next year >	Average per year	Total																						
2018	2019	2020	2021	2022																									
36	Ring magnets for magnetic beads trapping in a capillary Gassner, AL; Morandini, J; (...); Girault, HH Mar 2011 ANALYTICAL METHODS 3 (3) , pp.614-621	0	0	0	0	0	0.42	5																					
37	Preparation and Application of Immobilized Enzyme Micro-Reactor Shen, GY; Yu, WT; (...); Cui, X Jul 24 2013 PROGRESS IN CHEMISTRY 25 (7) , pp.1198-1207	0	0	1	0	0	0.4	4																					
38	Application of Magnetic Control Technique in Microfluidic Chips Shen, YQ; Yao, B and Fang, Q Jan 2010 PROGRESS IN CHEMISTRY 22 (1) , pp.133-139	0	0	0	0	0	0.31	4																					

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⊖ 39 Mouse hippocampal explant culture system to study isolated axons Pathak, GK; Aranda-Espinoza, H and Shah, SB Jul 30 2014 JOURNAL OF NEUROSCIENCE METHODS 232, pp.157-164	0	1	0	0	0	0.22	2
⊖ 40 Microfluidic Immobilized Enzymatic Reactors for Proteomic Analyses-Recent Developments and Trends (2017-2021) Nagy, C; Szabo, R and Gaspar, A Feb 2022 MICROMACHINES 13 (2)	0	0	0	0	1	1	1
⊖ 41 Bubble cell for magnetic bead trapping in capillary electrophoresis Gassner, AL; Proczek, G and Girault, HH Dec 2011 ANALYTICAL AND BIOANALYTICAL CHEMISTRY 401 (10), pp.3239-3248	0	0	0	0	0	0.08	1

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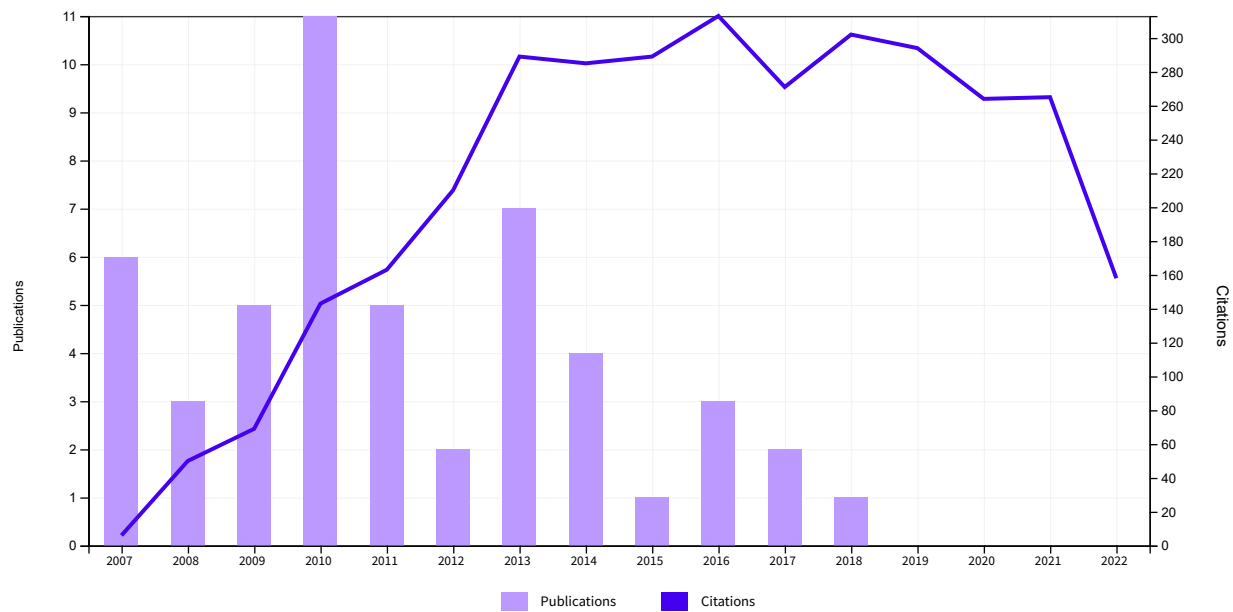
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		Total	302	294	264	265	158
1	Potential of Different Enzyme Immobilization Strategies to Improve Enzyme Performance	129	133	142	146	89	
	Garcia-Galan, C ; Berenguer-Murcia, A ; (...); Rodrigues, RC						

Nov 2011 ADVANCED SYNTHESIS & CATALYSIS 353 (16) , pp.2885-2904						
⊖ 2	Preparation and properties of magnetic nano- and micro-sized particles for biological and environmental separations Horak, D; Babic, M; (...); Benes, MJ Jul 2007 JOURNAL OF SEPARATION SCIENCE 30 (11) , pp.1751-1772	16	11	12	8	10
⊖ 3	Superparamagnetic nanoparticles as versatile carriers and supporting materials for enzymes Netto, CGCM; Toma, HE and Andrade, LH Jan 2013 JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC 85-86 , pp.71-92	36	23	20	25	14
⊖ 4	Highly Efficient Enzyme Reactors Containing Trypsin and Endoproteinase LysC Immobilized on Porous Polymer Monolith Coupled to MS Suitable for Analysis of Antibodies Krenkova, J; Lacher, NA and Svec, F Mar 1 2009 ANALYTICAL CHEMISTRY 81 (5) , pp.2004-2012	8	5	6	4	1
⊖ 5	Superparamagnetic maghemite nanoparticles from solid-state synthesis - Their functionalization towards peroral MRI contrast agent and magnetic carrier for trypsin immobilization Kluchova, K; Zboril, R; (...); Petridis, D May 2009 BIOMATERIALS 30 (15) , pp.2855-2863	8	13	7	5	5
⊖ 6	Dual magnetic-/temperature-responsive nanoparticles for microfluidic separations and assays Lai, JJ; Hoffman, JM; (...); Stayton, PS Jun 19 2007 LANGMUIR 23 (13) , pp.7385-7391	5	8	8	9	2
⊖ 7	Functionalization Strategies for Protease Immobilization on Magnetic Nanoparticles Li, D; Teoh, WY; (...); Amal, R Jun 9 2010 ADVANCED FUNCTIONAL MATERIALS 20 (11) , pp.1767-1777	10	11	7	5	2
⊖ 8	Efficient on-chip proteolysis system based on functionalized magnetic silica microspheres Li, Y; Yan, B; (...); Zhang, XM Jul 2007 PROTEOMICS 7 (14) , pp.2330-2339	4	2	2	0	0
⊖ 9	Microchip reactor packed with metal-ion chelated magnetic silica microspheres for highly efficient proteolysis Li, Y; Xu, XO; (...); Zhang, XM 2007 JOURNAL OF PROTEOME RESEARCH 6 (6) , pp.2367-2375	1	2	1	0	2
⊖ 10	Capillary electrophoresis mass spectrometry coupling with immobilized enzyme electrospray capillaries	3	1	4	3	2



	Krenkova, J; Kleparnik, K and Foret, F Aug 3 2007 JOURNAL OF CHROMATOGRAPHY A 1159 (1-2) , pp.110-118					
⊖ 11	Magnetic Particle-Based Hybrid Platforms for Bioanalytical Sensors Stanciu, L; Won, YH; (...); Andreescu, S Apr 2009 SENSORS 9 (4) , pp.2976-2999	3	7	4	8	2
⊖ 12	Proteolytic enzyme-immobilization techniques for MS-based protein analysis Monzo, A; Sperling, E and Guttman, A Jul-aug 2009 TRAC-TRENDS IN ANALYTICAL CHEMISTRY 28 (7) , pp.854-864	3	2	2	3	0
⊖ 13	In-line system containing porous polymer monoliths for protein digestion with immobilized pepsin, peptide preconcentration and nano-liquid chromatography separation coupled to electrospray ionization mass spectroscopy Geiser, L; Eeltink, S; (...); Frechet, JM.J Apr 25 2008 JOURNAL OF CHROMATOGRAPHY A 1188 (2) , pp.88-96	2	3	2	1	1
⊖ 14	Nanobiocatalysis for protein digestion in proteomic analysis Kim, J; Kim, BC; (...); Smith, RD Feb 2010 PROTEOMICS 10 (4) , pp.687-699	0	1	1	2	2
⊖ 15	Recent applications of capillary electrophoresis-mass spectrometry (CE-MS): CE performing functions beyond separation Nesbitt, CA; Zhang, HX and Yeung, KKC Oct 3 2008 ANALYTICA CHIMICA ACTA 627 (1) , pp.3-24	1	2	0	0	1
⊖ 16	Magnetic nanoparticles as a tool for the immobilization/stabilization of hydrolases and their applications: An overview Husain, Q Dec 15 2016 BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY 6 (6) , pp.1585-1606	10	12	3	7	4
⊖ 17	Size-controlled Synthesis and Characterization of Fe3O4 Nanoparticles by Chemical Coprecipitation Method Hua, CC; Zakaria, S; (...); Ahmad, S Dec 2008 SAINS MALAYSIANA 37 (4) , pp.389-394	0	5	4	4	0
⊖ 18	Proteomic reactors and their applications in biology Zhou, H; Ning, ZB; (...); Figeys, D Oct 2011 FEBS JOURNAL 278 (20) , pp.3796-3806	2	2	2	1	0
⊖ 19	Enzymatic synthesis of gold nanoflowers with trypsin Li, LM and Weng, J Jul 30 2010 NANOTECHNOLOGY 21 (30)	1	2	2	3	0
⊖ 20	High-efficiency nano/micro-reactors for protein analysis	7	5	5	0	1

	Li, YX ; Yan, L ; (...); Liu, BH 2015 RSC ADVANCES 5 (2) , pp.1331-1342					
⊖ 21	Characterization of lactase-conjugated magnetic nanoparticles Talbert, JN and Goddard, JM Apr 2013 PROCESS BIOCHEMISTRY 48 (4) , pp.656-662	5	4	2	3	0
⊖ 22	Microfluidic devices for high-throughput proteome analyses Chao, TC and Hansmeier, N Feb 2013 PROTEOMICS 13 (3-4) , pp.467-479	9	2	0	1	0
⊖ 23	Protease Immobilization on gamma-Fe2O3/Fe3O4 Magnetic Nanoparticles for the Synthesis of Oligopeptides in Organic Solvents Xin, BJ ; Si, SF and Xing, GW 2010 CHEMISTRY-AN ASIAN JOURNAL 5 (6) , pp.1389-1394	4	2	1	0	0
⊖ 24	Preparation and characterization of a packed bead immobilized trypsin reactor integrated into a PDMS microfluidic chip for rapid protein digestion Kecskemeti, A and Gaspar, A May 1 2017 TALANTA 166 , pp.275-283	7	8	9	2	3
⊖ 25	New Monodisperse Magnetic Polymer Microspheres Biofunctionalized for Enzyme Catalysis and Bioaffinity Separations Horak, D ; Kucerova, J ; (...); Bilkova, Z May 2012 MACROMOLECULAR BIOSCIENCE 12 (5) , pp.647-655	1	2	3	0	0
⊖ 26	Magnetic Bead Cellulose as a Suitable Support for Immobilization of alpha-Chymotrypsin Prikryl, P ; Lenfeld, J ; (...); Kucerova, Z Sep 2012 APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY 168 (2) , pp.295-305	2	5	2	2	1
⊖ 27	Multifunctional protein processing chip with integrated digestion, solid-phase extraction, separation and electrospray Wang, C ; Jemere, AB and Harrison, DJ Nov 2010 ELECTROPHORESIS 31 (22) , pp.3703-3710	2	0	1	0	1
⊖ 28	Particle-based immobilized enzymatic reactors in microfluidic chips Kecskemeti, A and Gaspar, A Apr 1 2018 TALANTA 180 , pp.211-228	5	5	5	5	3
⊖ 29	Lab-on-a-chip for analysis of triglycerides based on a replaceable enzyme carrier using magnetic beads Chen, SP ; Yu, XD ; (...); Chen, HY 2010 ANALYST 135 (11) , pp.2979-2986	0	1	0	1	2
		0	1	1	0	50



⊖ 30	Immobilization of alpha-chymotrypsin to magnetic particles and their use for proteolytic cleavage of porcine pepsin A Sustrova, B; Novotna, L; (...); Ticha, M Sep 2009 JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC 60 (1-2) , pp.22-28					
⊖ 31	On-column tryptic mapping of proteins using metal-ion-chelated magnetic silica microspheres by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry Li, Y; Yan, B; (...); Zhang, XM 2007 RAPID COMMUNICATIONS IN MASS SPECTROMETRY 21 (14) , pp.2263-2268	0	1	1	1	0
⊖ 32	Identification of Coxiella burnetii surface-exposed and cell envelope associated proteins using a combined bioinformatics plus proteomics strategy Flores-Ramirez, G; Jankovicova, B; (...); Skultety, L Aug 2014 PROTEOMICS 14 (16) , pp.1868-1881	1	2	0	1	1
⊖ 33	Efficient proteolysis strategies based on microchip bioreactors Liu, S; Bao, HM; (...); Chen, G Apr 26 2013 JOURNAL OF PROTEOMICS 82 , pp.1-13	2	1	0	0	0
⊖ 34	Robust Trypsin Coating on Electrospun Polymer Nanofibers in Rigorous Conditions and Its Uses for Protein Digestion Ahn, HK; Kim, BC; (...); Kim, J Dec 15 2010 BIOTECHNOLOGY AND BIOENGINEERING 107 (6) , pp.917-923	0	0	0	1	0
⊖ 35	Enzyme Immobilized Magnetic Nanoparticles for In-Line Capillary Electrophoresis and Drug Biotransformation Studies: Application to Paracetamol Yu, DH; Van Antwerpen, P; (...); Kauffmann, JM Jul 2010 COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING 13 (6) , pp.455-460	2	2	1	0	0
⊖ 36	Lipase immobilization on magnetic microspheres via spacer arms: Effect of steric hindrance on the activity Zhang, DH; Li, YQ; (...); Chen, N Sep 2014 BIOTECHNOLOGY AND BIOPROCESS ENGINEERING 19 (5) , pp.838-843	1	2	1	2	3
⊖ 37	Immunomagnetic sulfonated hypercrosslinked polystyrene microspheres for electrochemical detection of proteins Salek, P; Korecka, L; (...); Bilkova, Z 2011 JOURNAL OF MATERIALS CHEMISTRY 21 (38) , pp.14783-14792	2	0	0	2	0
⊖ 38	Partially phosphonated polyethylenimine-coated nanoparticles as convenient support for enzyme immobilization in bioprocessing Monteil, C; Bar, N; (...); Villemin, D Mar 2014 SENSORS AND ACTUATORS B-CHEMICAL 192 , pp.269-274	1	1	1	1	0
⊖ 39	Microscale enzyme reactors comprising gold nanoparticles with immobilized trypsin for efficient protein digestion Safdar, M; Spross, J and Janis, J	2	2	1	0	1



Dec 2013 JOURNAL OF MASS SPECTROMETRY 48 (12) , pp.1281-1284																
⊖ 40	Interaction of TiO2 nanoparticle with trypsin analyzed by kinetic and spectroscopic methods Momeni, L; Shareghi, B; (...); Evinj, M Feb 2017 MONATSCHEFTE FUR CHEMIE 148 (2) , pp.199-207	4	2	0	2	2										
⊖ 41	Applications of multifunctional magnetic nanoparticles for the enrichment of proteins for PAGE separation Sun, B.J; Huang, L.Y; (...); Ouyang, J Aug 2011 ELECTROPHORESIS 32 (16) , pp.2091-2098	0	0	1	0	0										
⊖ 42	Magnetic Particle Plug-Based Assays for Biomarker Analysis Phurimsak, C; Tarn, M.D and Pamme, N May 2016 MICROMACHINES 7 (5)	0	1	0	3	2										
⊖ 43	Novel regenerative large-volume immobilized enzyme reactor: Preparation, characterization and application Ruan, G.H; Wei, M.P; (...); Zheng, Y.J Sep 15 2014 JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES 967 , pp.13-20	1	0	0	0	0										
⊖ 44	Identification of Carbonic Anhydrase I Immunodominant Epitopes Recognized by Specific Autoantibodies Which Indicate an Improved Prognosis in Patients with Malignancy after Autologous Stem Cell Transplantation Skultety, L; Jankovicova, B; (...); Bilkova, Z Oct 2010 JOURNAL OF PROTEOME RESEARCH 9 (10) , pp.5171-5179	0	0	0	1	0										
⊖ 45	Capillary Electrophoretic Peptide Mapping to Probe the Immobilization/Digestion Conditions of Glutaraldehyde-crosslinked Chymotrypsin Ghafourifar, G and Waldron, K.C 2016 CURRENT ANALYTICAL CHEMISTRY 12 (1) , pp.65-73	2	0	0	1	0										
50 Publications Sort by: Citations: highest first ▾ < 1 of 1 >		Citations < Previous yearNext year > <table><tr><td>2018</td><td>2019</td><td>2020</td><td>2021</td><td>2022</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					2018	2019	2020	2021	2022					
2018	2019	2020	2021	2022												
⊖ 47	Overlap of epitopes recognized by anti-carbonic anhydrase 1 IgG in patients with malignancy-related aplastic anemia-like syndrome and in patients with aplastic anemia Jankovicova, B; Skultety, L; (...); Lakota, J Jun 2013 IMMUNOLOGY LETTERS 153 (1-2) , pp.47-49	0	0	0	1	1										
⊖	Application of Magnetic Control Technique in Microfluidic Chips	0	0	0	0 50	?										

48	Shen, YQ; Yao, B and Fang, Q Jan 2010 PROGRESS IN CHEMISTRY 22 (1) , pp.133-139					
49	High Throughput Bioassays Using Nanoparticles Gomez-Hens, A; Fernandez-Romero, JM and Aguilar-Caballos, MP May 2010 COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING 13 (4) , pp.309-317	0	0	0	0	0
50	Efficient isolation of carbonyl-reducing enzymes using affinity approach with anticancer drug oracin as a specific ligand Skarydova, L; Andrys, R; (...); Bilkova, Z Apr 2013 JOURNAL OF SEPARATION SCIENCE 36 (7) , pp.1176-1184	0	0	0	0	0

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Total		2018	2019	2020	2021	2022		
		46	59	42	54	23	45.38	590
⊖ 1	Microfluidic Applications of Magnetic Particles for Biological Analysis and Catalysis	35	35	29	39	17	38.54	501
	Gijs, MAM; Lacharme, F and Lehmann, U Mar 2010 CHEMICAL REVIEWS 110 (3) , pp.1518-1563							

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Magnetic particles: From preparation to lab-on-a-chip, biosensors, microsystems and microfluidics applications

[Jamshaid, I](#); [Neto, ETT](#); (...); [Elaissari, A](#)

May 2016 | [TRAC-TRENDS IN ANALYTICAL CHEMISTRY](#) 79 , pp.344-362

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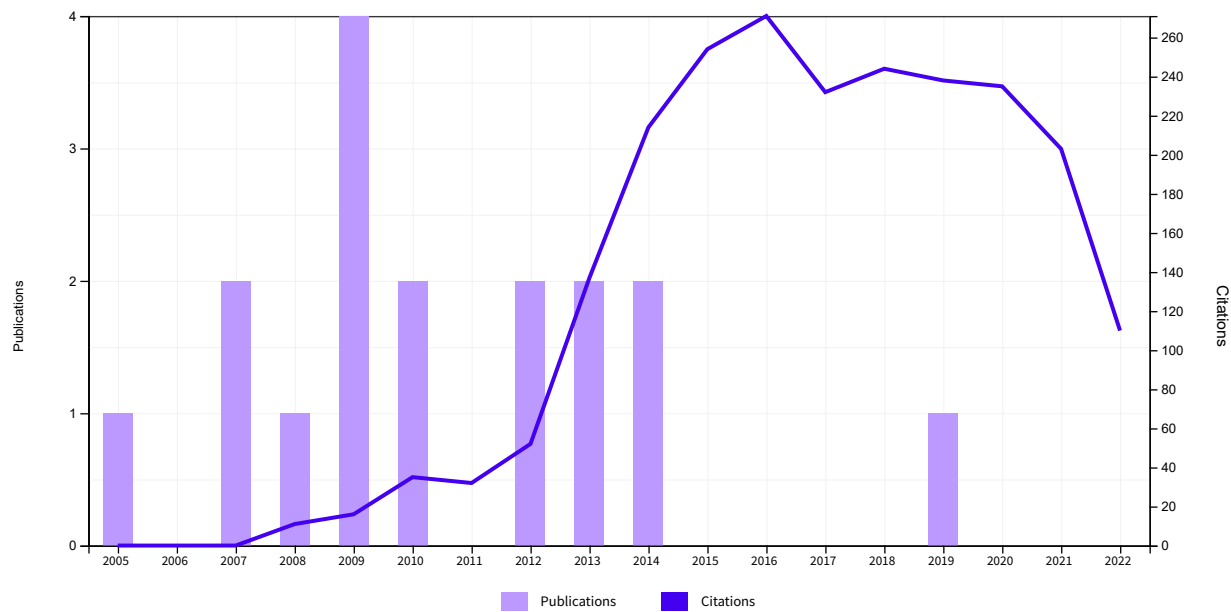
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		Total	244	238	235	203	110	152.27	2,284
1	Magnetic Nanoparticles: Design and Characterization, Toxicity and Biocompatibility, Pharmaceutical and Biomedical Applications		162	171	163	137	69	132.09	1,453

	Reddy, LH; Arias, JL; (...); Couvreur, P Nov 2012 CHEMICAL REVIEWS 112 (11), pp.5818-5878							
⊖ 2	Preparation and properties of magnetic nano- and micro-sized particles for biological and environmental separations Horak, D; Babic, M; (...); Benes, MJ Jul 2007 JOURNAL OF SEPARATION SCIENCE 30 (11), pp.1751-1772	16	11	12	8	10	18.5	296
⊖ 3	Superparamagnetic nanoparticles as versatile carriers and supporting materials for enzymes Netto, CGCM; Toma, HE and Andrade, LH Jan 2013 JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC 85-86, pp.71-92	36	23	20	25	14	22.9	229
⊖ 4	Application of Iron Magnetic Nanoparticles in Protein Immobilization Xu, JK; Sun, JJ; (...); Sun, M Aug 2014 MOLECULES 19 (8), pp.11465-11486	22	27	27	24	13	18.33	165
⊖ 5	Laccase immobilized on magnetic carriers for biotechnology applications Rotkova, J; Sulakova, R; (...); Bilkova, Z 7th International Conference on Scientific and Clinical Applications of Magnetic Carriers May 2009 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 321 (10), pp.1335-1340	3	1	4	3	2	2.29	32
⊖ 6	New Monodisperse Magnetic Polymer Microspheres Biofunctionalized for Enzyme Catalysis and Bioaffinity Separations Horak, D; Kucerova, J; (...); Bilkova, Z May 2012 MACROMOLECULAR BIOSCIENCE 12 (5), pp.647-655	1	2	3	0	0	2.64	29
⊖ 7	Lab-on-a-chip biosensor for glucose based on a packed immobilized enzyme reactor Blanes, L; Mora, MF; (...); Garcia, CD Dec 2007 ELECTROANALYSIS 19 (23), pp.2451-2456	1	1	0	1	0	1.06	17
⊖ 8	Preparation and characterization of magnetic nanoparticles with chitosan coating Doan, TKD; Hai, TH; (...); Truc, PN APCTP-ASEAN Workshop on Advanced Materials Science and Nanotechnology (AMSN08) 2009 APCTP-ASEAN WORKSHOP ON ADVANCED MATERIALS SCIENCE AND NANOTECHNOLOGY (AMSN08) 187	0	1	3	4	1	0.79	11
⊖ 9	Magnetic Poly(glycidyl methacrylate) Particles Prepared in the Presence of Surface-Modified gamma-Fe ₂ O ₃ Tocchio, A; Horak, D; (...); Fojtik, A Oct 1 2009 JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY 47 (19), pp.4982-4994	0	1	0	1	0	0.71	10



10	Semisynthesis of C17:0 isoforms of sulphatide and glucosylceramide using immobilised sphingolipid ceramide N-deacylase for application in analytical mass spectrometry Kuchar, L; Rotkova, J; (...); Ledvinova, J Aug 2010 RAPID COMMUNICATIONS IN MASS SPECTROMETRY 24 (16) , pp.2393-2399	2	0	0	0	0	0.77	10													
11	The use of polyaniline nanofibre as a support for lipase mediated reaction Lee, G; Joo, H and Lee, J Aug 2008 JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC 54 (3-4) , pp.116-121	0	0	0	0	0	0.47	7													
12	Temperature, pH and Diol Tri-Sensing Magnetic Particles for Specific Ribonucleic Acid Recognition Rahman, MM; Chehimi, MM and Elaissari, A Mar 2014 JOURNAL OF COLLOID SCIENCE AND BIOTECHNOLOGY 3 (1) , pp.46-57	0	0	0	0	0	0.44	4													
17 Publications Sort by: Citations: highest first < 1 of 1 >		Citations <table><tr><th colspan="5">< Previous year</th><th>Next year ></th><th rowspan="2">Average per year</th><th rowspan="2">Total</th></tr><tr><th>2018</th><th>2019</th><th>2020</th><th>2021</th><th>2022</th></tr></table>							< Previous year					Next year >	Average per year	Total	2018	2019	2020	2021	2022
< Previous year					Next year >	Average per year	Total														
2018	2019	2020	2021	2022																	
14	reactor combined with Fourier-transform ion cyclotron resonance mass spectrometry as a tool for the screening of potential vaccine lead peptides Bilkova, Z; Stefanescu, R; (...); Przybylski, M European Workshop on Fourier Transform Mass Spectrometry 2005 EUROPEAN JOURNAL OF MASS SPECTROMETRY 11 (5) , pp.489-495	0	0	0	0	0	0.11	2													
15	Preparation, and Antibacterial Activity of Chloroacetic Acid Immobilized on Chitosan Coated Iron Oxide Decorated Silver Nanoparticles as an Efficient Catalyst for the Synthesis of Hexahydroquinoline-3-Carboxamides Ghiassi, S; Mokhtary, M; (...); Kefayati, H Nov 2019 JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS 29 (6) , pp.1972-1982 Enriched Cited References	0	0	2	0	1	0.75	3													
16	Efficient isolation of carbonyl-reducing enzymes using affinity approach with anticancer drug oracin as a specific ligand Skarydova, L; Andrys, R; (...); Bilkova, Z Apr 2013 JOURNAL OF SEPARATION SCIENCE 36 (7) , pp.1176-1184	0	0	0	0	0	0.1	1													
17	Detection of Proteins Using Electrochemical Immunosensors in Combination with Magnetic Particles Korecka, L; Moravcova, L; (...); Metelka, R 30th Modern Electrochemical Methods	0	0	0	0	0	0	0													

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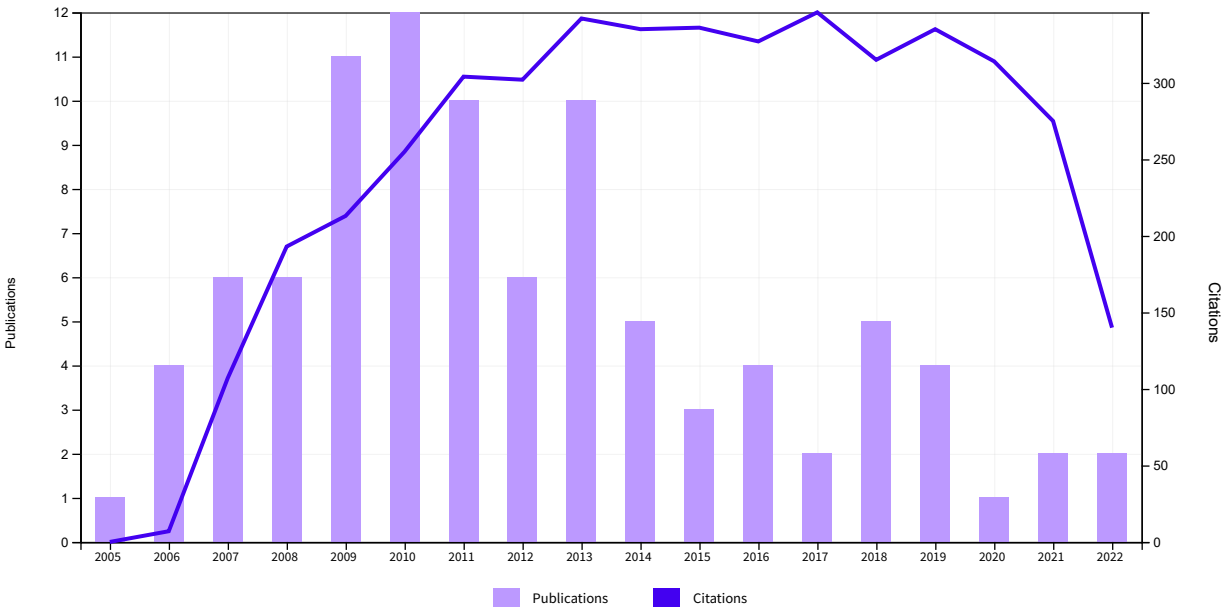
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Micro total analysis systems. Latest advancements and trends		19	14	16	15	7	47.59	900

1	Dittrich, PS; Tachikawa, K and Manz, A Jun 15 2006 ANALYTICAL CHEMISTRY 78 (12) , pp.3887-3907							
2	Microfluidic Applications of Magnetic Particles for Biological Analysis and Catalysis Gijls, MAM; Lacharme, F and Lehmann, U Mar 2010 CHEMICAL REVIEWS 110 (3) , pp.1518-1563	35	35	29	39	17	38.54	501
3	Integrated lab-on-chip biosensing systems based on magnetic particle actuation - a comprehensive review van Reenen, A; de Jong, AM; (...); Prins, MWJ 2014 LAB ON A CHIP 14 (12) , pp.1966-1986	22	24	24	15	10	19.67	177
4	Protein Digestion: An Overview of the Available Techniques and Recent Developments Switzer, L; Giera, M and Niessen, WMA Mar 2013 JOURNAL OF PROTEOME RESEARCH 12 (3) , pp.1067-1077	15	14	21	10	9	13.2	132
5	Highly Efficient Enzyme Reactors Containing Trypsin and Endoproteinase LysC Immobilized on Porous Polymer Monolith Coupled to MS Suitable for Analysis of Antibodies Krenkova, J; Lacher, NA and Svec, F Mar 1 2009 ANALYTICAL CHEMISTRY 81 (5) , pp.2004-2012	8	5	6	4	2	10.64	149
6	Functionalization Strategies for Protease Immobilization on Magnetic Nanoparticles Li, D; Teoh, WY; (...); Amal, R Jun 9 2010 ADVANCED FUNCTIONAL MATERIALS 20 (11) , pp.1767-1777	10	11	7	5	2	9.15	119
7	Microfluidic chips for mass spectrometry-based proteomics Lee, J; Soper, SA and Murray, KK May 2009 JOURNAL OF MASS SPECTROMETRY 44 (5) , pp.579-593	7	3	5	5	1	7.43	104
8	Proteome-on-a-chip: Mirage, or on the horizon? Freire, SLS and Wheeler, AR 2006 LAB ON A CHIP 6 (11) , pp.1415-1423	2	1	5	0	0	5.65	96
9	Magnetic solid phase microextraction on a microchip combined with electrothermal vaporization-inductively coupled plasma mass spectrometry for determination of Cd, Hg and Pb in cells Chen, BB; Heng, SJ; (...); Zhu, Y 2010 JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY 25 (12) , pp.1931-1938	7	6	5	7	0	6.85	89
10	Efficient on-chip proteolysis system based on functionalized magnetic silica microspheres Li, Y; Yan, B; (...); Zhang, XM Jul 2007 PROTEOMICS 7 (14) , pp.2330-2339	4	2	2	0	0	5.5	88



⊖ 11	Mobile magnetic particles as solid-supports for rapid surface-based bioanalysis in continuous flow Peyman, SA; Iles, A and Pamme, N 2009 LAB ON A CHIP 9 (21) , pp.3110-3117	2	5	4	3	0	5.86	82
⊖ 12	Advances in coupling microfluidic chips to mass spectrometry Feng, XJ; Liu, BE; (...); Liu, X Sep-oct 2015 MASS SPECTROMETRY REVIEWS 34 (5) , pp.535-557	15	11	8	9	5	9.88	79
⊖ 13	Magnetic particles: From preparation to lab-on-a-chip, biosensors, microsystems and microfluidics applications Jamshaid, T; Neto, ETT; (...); Elaissari, A May 2016 TRAC-TRENDS IN ANALYTICAL CHEMISTRY 79 , pp.344-362	11	24	13	15	6	10.57	74
⊖ 14	Full on-chip nanoliter immunoassay by geometrical magnetic trapping of nanoparticle chains Lacharme, E; Vandevyver, C and Gijs, MAM Apr 15 2008 ANALYTICAL CHEMISTRY 80 (8) , pp.2905-2910	1	3	3	2	0	4.4	66
⊖ 15	Chip-based array magnetic solid phase microextraction on-line coupled with inductively coupled plasma mass spectrometry for the determination of trace heavy metals in cells Wang, H; Wu, ZK; (...); Hu, B 2015 ANALYST 140 (16) , pp.5619-5626	6	13	13	14	5	8.63	69
⊖ 16	A replaceable microreactor for on-line protein digestion in a two-dimensional capillary electrophoresis system with tandem mass spectrometry detection Li, YH; Wojcik, R and Dovich, NJ Apr 15 2011 JOURNAL OF CHROMATOGRAPHY A 1218 (15) , pp.2007-2011	6	2	4	1	0	5.67	68
⊖ 17	A Simple Point-of-Care Microfluidic Immunomagnetic Fluorescence Assay for Pathogens Zhang, RQ; Liu, SL; (...); Zhang, ZL Mar 5 2013 ANALYTICAL CHEMISTRY 85 (5) , pp.2645-2651	5	6	7	9	4	6.5	65
⊖ 18	Capillary electrophoresis mass spectrometry coupling with immobilized enzyme electrospray capillaries Krenkova, J; Kleparnik, K and Foret, F Aug 3 2007 JOURNAL OF CHROMATOGRAPHY A 1159 (1-2) , pp.110-118	3	1	4	3	2	3.94	63
⊖ 19	Chip-Based Magnetic Solid-Phase Microextraction Online Coupled with MicroHPLC-ICPMS for the Determination of Mercury Species in Cells Wang, H; Chen, BB; (...); Hu, B Jan 5 2016 ANALYTICAL CHEMISTRY 88 (1) , pp.796-802	13	10	12	10	2	8.86	62



⊖ 20	Magnetic forces produced by rectangular permanent magnets in static microsystems Gassner, AL; Abonnenc, M; (...); Girault, HH 2009 LAB ON A CHIP 9 (16) , pp.2356-2363	1	6	3	2	1	4.14	58
⊖ 21	Nanobiocatalysis for protein digestion in proteomic analysis Kim, J; Kim, BC; (...); Smith, RD Feb 2010 PROTEOMICS 10 (4) , pp.687-699	0	1	1	2	2	3.69	48
⊖ 22	Microfluidics with MALDI analysis for proteomics-A review Lee, J; Soper, SA and Murray, KK Sep 7 2009 ANALYTICA CHIMICA ACTA 649 (2) , pp.180-190	2	2	0	1	1	3.43	48
⊖ 23	Magnetic separation from superparamagnetic particle suspensions Sinha, A; Ganguly, R and Puri, JK Jul 2009 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 321 (14) , pp.2251-2256	1	1	3	3	0	3.29	46
⊖ 24	Centrifugal gas-phase transition magnetophoresis (GTM) - a generic method for automation of magnetic bead based assays on the centrifugal microfluidic platform and application to DNA purification Strohmeier, O; Emperle, A; (...); von Stetten, F 2013 LAB ON A CHIP 13 (1) , pp.146-155	2	6	1	5	1	4.5	45
⊖ 25	Development of an automated digestion and droplet deposition microfluidic chip for MALDI-TOF MS Lee, J; Musyimi, HK; (...); Murray, KK Jul 2008 JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY 19 (7) , pp.964-972	5	1	0	1	1	2.67	40
⊖ 26	Design, modeling and characterization of microfluidic architectures for high flow rate, small footprint microfluidic systems Saïas, L; Autebert, J; (...); Viovy, JL 2011 LAB ON A CHIP 11 (5) , pp.822-832	3	5	2	4	3	3	36
⊖ 27	Local control of magnetic objects in microfluidic channels Derec, C; Wilhelm, C; (...); Bacri, JC Jan 2010 MICROFLUIDICS AND NANOFUIDICS 8 (1) , pp.123-130	3	1	2	1	0	3.23	42
⊖ 28	A novel open-tubular capillary electrochromatography with magnetic nanoparticle coating as stationary phase Zhu, YX; Zhou, CR; (...); Zhang, WB Jan 2012 ELECTROPHORESIS 33 (2) , pp.340-347	3	3	2	1	0	3.55	39
		3	4	4	2	2	2.92	



⊖ 29	Controlling the Magnetic Field Distribution on the Micrometer Scale and Generation of Magnetic Bead Patterns for Microfluidic Applications Yu, X; Peng, XA; (...); Pang, DW Apr 19 2011 LANGMUIR 27 (8) , pp.5147-5156						
⊖ 30	Magnetic beads retention device for sandwich immunoassay: comparison of off-chip and on-chip antibody incubation Lacharme, F; Vandevyver, C and Gijs, MAM Oct 2009 MICROFLUIDICS AND NANOFUIDICS 7 (4) , pp.479-487	3	1	0	2	0	2.43 34
⊖ 31	Microchip Electrophoresis Profiling of A beta Peptides in the Cerebrospinal Fluid of Patients with Alzheimer's Disease Mohamadi, MR; Svobodova, Z; (...); Viovy, JL Sep 15 2010 ANALYTICAL CHEMISTRY 82 (18) , pp.7611-7617	2	3	5	1	1	2.77 36
⊖ 32	Nanoliter-Scale Electromembrane Extraction and Enrichment in a Microfluidic Chip Hansen, FA; Sticker, D; (...); Pedersen-Bjergaard, S Aug 7 2018 ANALYTICAL CHEMISTRY 90 (15) , pp.9322-9329	0	9	14	9	3	7 35
⊖ 33	Thiol-ene Monolithic Pepsin Microreactor with a 3D-Printed Interface for Efficient UPLC-MS Peptide Mapping Analyses Jonsson, A; Svejdal, RR; (...); Lafleur, JP Apr 18 2017 ANALYTICAL CHEMISTRY 89 (8) , pp.4573-4580	8	8	5	7	4	5.83 35
⊖ 34	Microfluidic chip-based technologies: emerging platforms for cancer diagnosis Ying, L and Wang, Q Sep 27 2013 BMC BIOTECHNOLOGY 13	6	4	4	2	1	3.2 32
⊖ 35	Capillary electrophoresis immunoassay using magnetic beads Chen, HX; Busnel, JM; (...); Girault, HH Aug 2008 ELECTROPHORESIS 29 (16) , pp.3414-3421	1	3	2	1	0	2.13 32
⊖ 36	Immobilized-enzyme reactors integrated with capillary electrophoresis for pharmaceutical research Schejbal, J and Glatz, Z Jan 2018 JOURNAL OF SEPARATION SCIENCE 41 (1) , pp.323-335	3	11	9	7	3	6.6 33
⊖ 37	Patterning microbeads inside poly(dimethylsiloxane) microfluidic channels and its application for immobilized microfluidic enzyme reactors Zhang, Q; Xu, JJ and Chen, HY Dec 2006 ELECTROPHORESIS 27 (24) , pp.4943-4951	2	1	1	1	0	1.88 32
		7	8	9	2	3	4.83 50

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Preparation and characterization of a packed bead immobilized trypsin reactor integrated into a PDMS microfluidic chip for rapid protein digestion

[Kecskemeti, A](#)

and

[Gaspar, A](#)

May 1 2017 | [TALANTA](#) 166 , pp.275-283

39

An integrated microfluidic chip for immunocapture, preconcentration and separation of beta-amyloid peptides

[Mohamadi, RM](#)

[Svobodova, Z](#)

[; \(...\)](#)

[Viovy, JL](#)

Sep 2015 | [Biomicrofluidics](#) 9 (5)

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Simultaneous trapping of magnetic and diamagnetic particle plugs for separations and bioassays

[Tarn, MD](#)

[Peyman, SA](#)

and

[Pamme, N](#)

2013 | [RSC ADVANCES](#) 3 (20) , pp.7209-7214

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New Monodisperse Magnetic Polymer Microspheres Biofunctionalized for Enzyme Catalysis and Bioaffinity Separations

[Horak, D](#)

[Kucerova, J](#)

[; \(...\)](#)

[Bilkova, Z](#)

May 2012 | [MACROMOLECULAR BIOSCIENCE](#) 12 (5) , pp.647-655

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Development of an efficient on-chip digestion system for protein analysis using MALDI-TOF MS

[Lee, J](#)

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[Murray, KK](#)

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Using high-concentration trypsin-immobilized magnetic nanoparticles for rapid in situ protein digestion at elevated temperature

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[Lin, ME](#)

[; \(...\)](#)

[Shiea, JT](#)

2007 | [RAPID COMMUNICATIONS IN MASS SPECTROMETRY](#) 21 (18) , pp.3060-3068

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On-line coupling of immobilized cytochrome P450 microreactor and capillary electrophoresis: A promising tool for drug development

[Schejbal, J](#)

[Reminek, R](#)

[; \(...\)](#)

[Glatz, Z](#)

Mar 11 2016 | [JOURNAL OF CHROMATOGRAPHY A](#) 1437 , pp.234-240

46

Development of a magnetic immunosorbent for on-chip preconcentration of amyloid beta isoforms: Representatives of Alzheimer's disease biomarkers

[Svobodova, Z](#)

[Mohamadi, MR](#)

[; \(...\)](#)

[Bilkova, Z](#)

50



Jun 2012 BIOMICROFLUIDICS 6 (2)								
⊖ 47	Multifunctional protein processing chip with integrated digestion, solid-phase extraction, separation and electrospray Wang, C; Jemere, AB and Harrison, DJ Nov 2010 ELECTROPHORESIS 31 (22) , pp.3703-3710	2	0	1	0	1	1.92	25
⊖ 48	On-chip tryptic digest with direct coupling to ESI-MS using magnetic particles Le Nel, A; Krenkova, J; (...); Foret, F Dec 2008 ELECTROPHORESIS 29 (24) , pp.4944-4947	2	2	0	0	1	1.8	27
⊖ 49	On chip magnetic actuator for batch-mode dynamic manipulation of magnetic particles in compact lab-on-chip Fulcrand, R; Bancaud, A; (...); Gue, AM Dec 15 2011 SENSORS AND ACTUATORS B-CHEMICAL 160 (1) , pp.1520-1528	2	0	5	1	1	2.17	26
⊖ 50	Integration of minisolenoids in microfluidic device for magnetic bead-based immunoassays Liu, YJ; Guo, SS; (...); Pang, DW Oct 15 2007 JOURNAL OF APPLIED PHYSICS 102 (8)	1	0	1	0	0	1.38	22
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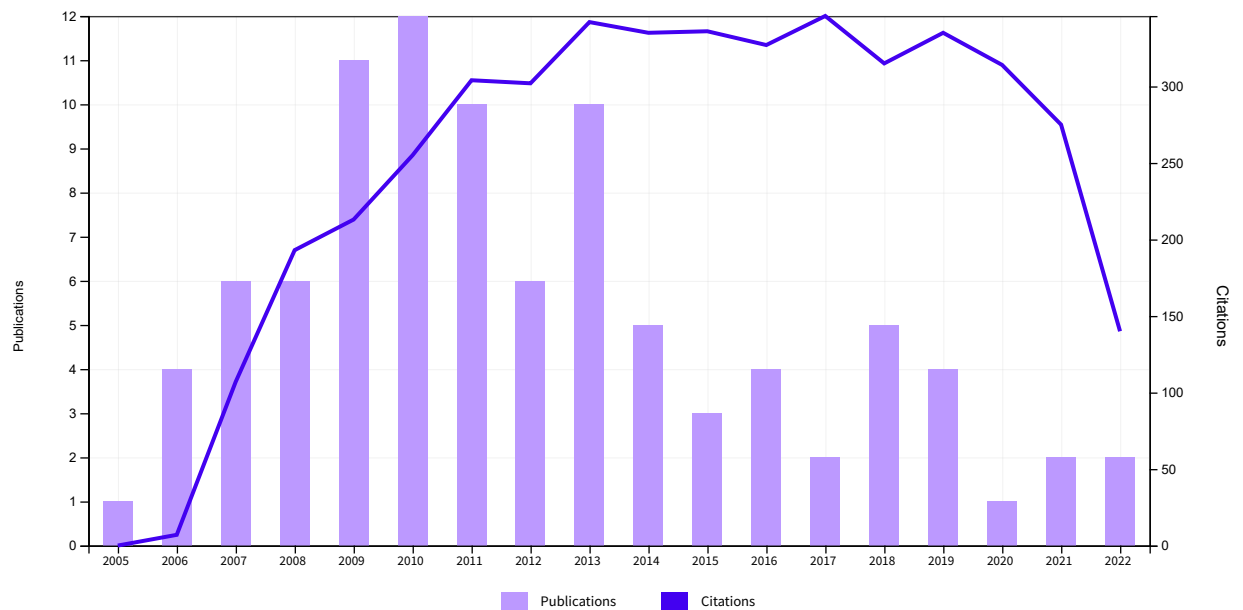
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⊖ 51 A porous organic polymer with magnetic nanoparticles on a chip array for preconcentration of platinum(IV), gold(III) and bismuth(III) prior to their on-line quantitation by ICP-MS		0	4	6	9	5	6	24	

Chen, ZN; Chen, BB; (...); Hu, B Feb 2019 MICROCHIMICA ACTA 186 (2)								
 52	Particle-based immobilized enzymatic reactors in microfluidic chips Kecsckemeti, A and Gaspar, A Apr 1 2018 TALANTA 180 , pp.211-228	5	5	5	5	3	4.6	23
 53	Synthesis of magnetic hydrogel microparticles for bioassays and tweezer manipulation in microwells Suh, SK; Chapin, SC; (...); Doyle, PS Oct 2012 MICROFLUIDICS AND NANOFUIDICS 13 (4) , pp.665-674	1	0	2	1	0	2.09	23
 54	A chemometric approach for optimizing protein covalent immobilization on magnetic core-shell nanoparticles in view of an alternative immunoassay Teste, B; Vial, J; (...); Hennion, MC Jun 15 2010 TALANTA 81 (4-5) , pp.1703-1710	1	3	0	2	0	1.77	23
 55	The characteristics of open-tubular capillary electrochromatography columns with series/mixed stationary phases constructed with magnetic nanoparticle coating Zhu, YX; Zhang, LY; (...); Zhang, WB Jan 30 2013 TALANTA 104 , pp.173-179	3	4	4	1	1	2	20
 56	Lab-on-a-chip for analysis of triglycerides based on a replaceable enzyme carrier using magnetic beads Chen, SP; Yu, XD; (...); Chen, HY 2010 ANALYST 135 (11) , pp.2979-2986	0	1	0	1	2	1.31	17
 57	Efficient proteolysis strategies based on microchip bioreactors Liu, S; Bao, HM; (...); Chen, G Apr 26 2013 JOURNAL OF PROTEOMICS 82 , pp.1-13	2	1	0	0	0	1.6	16
 58	PEGylation of magnetic poly(glycidyl methacrylate) microparticles for microfluidic bioassays Kucerovala, J; Svobodova, Z; (...); Bilkova, Z Jul 1 2014 MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS 40 , pp.308-315	4	1	0	0	1	1.67	15
 59	Enzymatic activity of surface-immobilized horseradish peroxidase confined to micrometer- to nanometer-scale structures in nanocapillary array membranes Wang, Z; King, TL; (...); Bohn, PW 2009 ANALYST 134 (5) , pp.851-859	2	0	1	0	1	1	14
		2	0	0	0	2	0.9	50





60	Magnetic nanocarriers: from material design to magnetic manipulation Clime, L; Le Drogoff, B; (...); Veres, T 2008 INTERNATIONAL JOURNAL OF NANOTECHNOLOGY 5 (9-12) , pp.1268-1305							
61	Preparation of the capillary-based microchips for solid phase extraction by using the monolithic frits prepared by UV-initiated polymerization Wang, XC; Yang, XH and Zrang, XM Aug 2006 ANALYTICAL SCIENCES 22 (8) , pp.1099-1104	1	0	0	0	0	0.82	14
62	Improved peak capacity for CE separations of enzyme inhibitors with activity-based detection using magnetic bead microreactors Yan, XY and Gilman, SD Jan 2010 ELECTROPHORESIS 31 (2) , pp.346-354	1	1	0	0	0	1	13
63	Capillary electrophoresis integrated immobilized enzyme reactor for kinetic and inhibition assays of beta-secretase as the Alzheimer's disease drug target Schejbal, J; Sefrana, S; (...); Glatz, Z Mar 2019 JOURNAL OF SEPARATION SCIENCE 42 (5) , pp.1067-1076	0	2	3	3	4	3	12
64	An improved design to capture magnetic microparticles for capillary electrophoresis based immobilized microenzyme reactors Ramana, P; Schejbal, J; (...); Van Schepdael, A Apr 2018 ELECTROPHORESIS 39 (7) , pp.981-988	1	6	1	3	1	2.4	12
65	Magnetic track array for efficient bead capture in microchannels Abonnenc, M; Gassner, AL; (...); Girault, HH Oct 2009 ANALYTICAL AND BIOANALYTICAL CHEMISTRY 395 (3) , pp.747-757	0	1	1	1	0	0.79	11
66	Partially phosphonated polyethylenimine-coated nanoparticles as convenient support for enzyme immobilization in bioprocessing Monteil, C; Bar, N; (...); Villemain, D Mar 2014 SENSORS AND ACTUATORS B-CHEMICAL 192 , pp.269-274	1	1	1	1	0	1.22	11
67	Detection of single-base mutations using 1-D microfluidic beads array Zhang, H; Yang, X; (...); Chen, Y Dec 2007 ELECTROPHORESIS 28 (24) , pp.4668-4678	0	0	0	0	0	0.69	11
68	Fast magnetic isolation of simple sequence repeat markers in microfluidic channels He, SB; Yu, X; (...); Li, LJ 2014 LAB ON A CHIP 14 (8) , pp.1410-1414	0	2	1	0	0	1.11	10
69	Magnetic Control of Protein Spatial Patterning to Direct Microtubule Self-Assembly	0	1	0	2	0	1	10



	Hoffmann, C; Mazari, E; (...); Gueroui, Z Nov 2013 ACS NANO 7 (11) , pp.9647-9654							
70	On-a-chip tryptic digestion of transthyretin: a step toward an integrated microfluidic system for the follow-up of familial transthyretin amyloidosis Bataille, J; Viode, A; (...); Le Potier, J Mar 7 2018 ANALYST 143 (5) , pp.1077-1086	2	3	1	1	1	1.6	8
71	Magnetic Particle Plug-Based Assays for Biomarker Analysis Phurimsak, C; Tarn, MD and Pamme, N May 2016 MICROMACHINES 7 (5)	0	1	0	3	2	1.14	8
72	Individual Organelle pH Determinations of Magnetically Enriched Endocytic Organelles via Laser-Induced Fluorescence Detection Satori, CP; Kostal, V and Arriaga, EA Oct 1 2011 ANALYTICAL CHEMISTRY 83 (19) , pp.7331-7339	0	0	1	1	0	0.67	8
73	Integrated Multifunctional Microfluidics for Automated Proteome Analyses Osiri, JK; Shadpour, H; (...); Soper, SA 2011 MICROFLUIDICS: TECHNOLOGIES AND APPLICATIONS 304 , pp.261-294	0	0	0	2	0	0.67	8
74	Identification of Carbonic Anhydrase I Immunodominant Epitopes Recognized by Specific Autoantibodies Which Indicate an Improved Prognosis in Patients with Malignancy after Autologous Stem Cell Transplantation Skultety, L; Jankovicova, B; (...); Bilkova, Z Oct 2010 JOURNAL OF PROTEOME RESEARCH 9 (10) , pp.5171-5179	0	0	0	1	0	0.62	8
75	Functional Microparticle R&D for IVD and Cell Therapeutic Technology: Large-Scale Commercialized Products Song, SH; Lee, JH; (...); Park, W Mar 2019 BIOCHIP JOURNAL 13 (1) , pp.95-104	0	1	2	4	0	1.75	7
76	Influence of immobilized biomolecules on magnetic bead plug formation and retention in capillary electrophoresis Henken, RL; Chantiwas, R and Gilman, SD Mar 2012 ELECTROPHORESIS 33 (5) , pp.827-833	2	2	0	0	0	0.64	7
77	Trends in the bioanalytical applications of microfluidic electrocapture Shariatgorji, M; Astorga-Wells, J and Ilag, LL Jan 2011 ANALYTICAL AND BIOANALYTICAL CHEMISTRY 399 (1) , pp.191-195	1	0	1	0	0	0.58	7
	Hydrogen/Deuterium Exchange Mass Spectrometry with Integrated Electrochemical Reduction and Microchip-Enabled Deglycosylation	0	0	0	0	6	3	6



78	for Epitope Mapping of Heavily Glycosylated and Disulfide-Bonded Proteins Comamala, G; Krogh, CC; (...); Rand, KD Dec 14 2021 ANALYTICAL CHEMISTRY 93 (49) , pp.16330-16340																																
79	Thiol-ene microfluidic chip for fast on-chip sample clean-up, separation and ESI mass spectrometry of peptides and proteins Svejdal, RR; Sticker, D; (...); Rand, KD Dec 15 2020 ANALYTICA CHIMICA ACTA 1140 , pp.168-177	0	0	0	2	4	2	6																									
80	Construction of microscale structures in enclosed microfluidic networks by using a magnetic beads based method Wang, ZY; Zhang, XJ; (...); Zheng, XL Aug 20 2013 ANALYTICA CHIMICA ACTA 792 , pp.66-71	1	0	1	0	0	0.5	5																									
81	Ring magnets for magnetic beads trapping in a capillary Gassner, AL; Morandini, J; (...); Girault, HH Mar 2011 ANALYTICAL METHODS 3 (3) , pp.614-621	0	0	0	0	0	0.42	5																									
82	Measuring reaction rates on single particles in a microfluidic device Caulum, MM and Henry, CS 2008 LAB ON A CHIP 8 (6) , pp.865-867	0	0	0	0	0	0.33	5																									
83	Preparation and Application of Immobilized Enzyme Micro-Reactor Shen, GY; Yu, WT; (...); Cui, X Jul 24 2013 PROGRESS IN CHEMISTRY 25 (7) , pp.1198-1207	0	0	1	0	0	0.4	4																									
84	Application of Magnetic Control Technique in Microfluidic Chips Shen, YQ; Yao, B and Fang, Q Jan 2010 PROGRESS IN CHEMISTRY 22 (1) , pp.133-139	0	0	0	0	0	0.31	4																									
85	Epitope extraction technique using a proteolytic magnetic reactor combined with Fourier-transform ion cyclotron resonance mass spectrometry as a tool for the screening of potential vaccine lead peptides Bilkova, Z; Stefanescu, R; (...); Przybylski, M European Workshop on Fourier Transform Mass Spectrometry 2005 EUROPEAN JOURNAL OF MASS SPECTROMETRY 11 (5) , pp.489-495	0	0	0	0	0	0.11	2																									
86	Directed self-assembly of field-responsive fluids in confined geometries Haghgooie, R and Doyle, PS	0	0	0	0	0	0.21	3																									
94 Publications Sort by: Citations: highest first < 2 of 2 >		Citations <table><tr><td colspan="5">< Previous year</td><td colspan="2">Next year ></td><td rowspan="2">Average per year 50</td><td rowspan="2">Total</td></tr><tr><td>2018</td><td>2019</td><td>2020</td><td>2021</td><td>2022</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							< Previous year					Next year >		Average per year 50	Total	2018	2019	2020	2021	2022											
< Previous year					Next year >		Average per year 50	Total																									
2018	2019	2020	2021	2022																													

Feb 2019 ANALYTICAL AND BIOANALYTICAL CHEMISTRY 411 (5) , pp.1085-1094								
⊖ 88	Progress of biochemical reaction technologies on microfluidic chips Xu, Y; Lv, J; (...); Wen, Z May 2007 PROGRESS IN CHEMISTRY 19 (5) , pp.820-831	0	0	0	0	0	0.13	2
⊖ 89	Microfluidic Immobilized Enzymatic Reactors for Proteomic Analyses-Recent Developments and Trends (2017-2021) Nagy, C; Szabo, R and Gaspar, A Feb 2022 MICROMACHINES 13 (2)	0	0	0	0	1	1	1
⊖ 90	Bubble cell for magnetic bead trapping in capillary electrophoresis Gassner, AL; Proczek, G and Girault, HH Dec 2011 ANALYTICAL AND BIOANALYTICAL CHEMISTRY 401 (10) , pp.3239-3248	0	0	0	0	0	0.08	1
⊖ 91	MIMAS: microfluidic platform in tandem with MALDI mass spectrometry for protein quantification from small cell ensembles Villarreal, JC; Kruithoff, R; (...); Ros, A May 2022 Apr 2022 (Early Access) ANALYTICAL AND BIOANALYTICAL CHEMISTRY 414 (13) , pp.3945-3958 ☰ ★ Enriched Cited References	0	0	0	0	0	0	0
⊖ 92	Microfluidic reaction design for real time chemical reactions monitoring Casey, A and Triplett, GE Conference on Frontiers in Biological Detection - From Nanosensors to Systems XIII 2021 FRONTIERS IN BIOLOGICAL DETECTION: FROM NANOSENSORS TO SYSTEMS XIII 11662	0	0	0	0	0	0	0
⊖ 93	MAGNETIC BEAD-BASED IMMUNOCAPTURE OF CLINICAL BIOMARKERS IN MICROFLUIDIC DEVICES: FROM PEPTIDES TO WHOLE CELLS Svobodova, Z; Jankovicova, B; (...); Bilkova, Z 11th International Interdisciplinary Meeting on Bioanalysis 2014 CECE 2014: 11TH INTERNATIONAL INTERDISCIPLINARY MEETING ON BIOANALYSIS , pp.77-80	0	0	0	0	0	0	0
⊖ 94	MAGNETIC BEADS-BASED MICROFLUIDIC SYSTEMS: THE PAST AND THE FUTURE Bilkova, Z and Svobodova, Z 9th International Interdisciplinary Meeting on Bioanalysis 2012 CECE 2012: 9TH INTERNATIONAL INTERDISCIPLINARY MEETING ON BIOANALYSIS , pp.97-98	0	0	0	0	0	0	0

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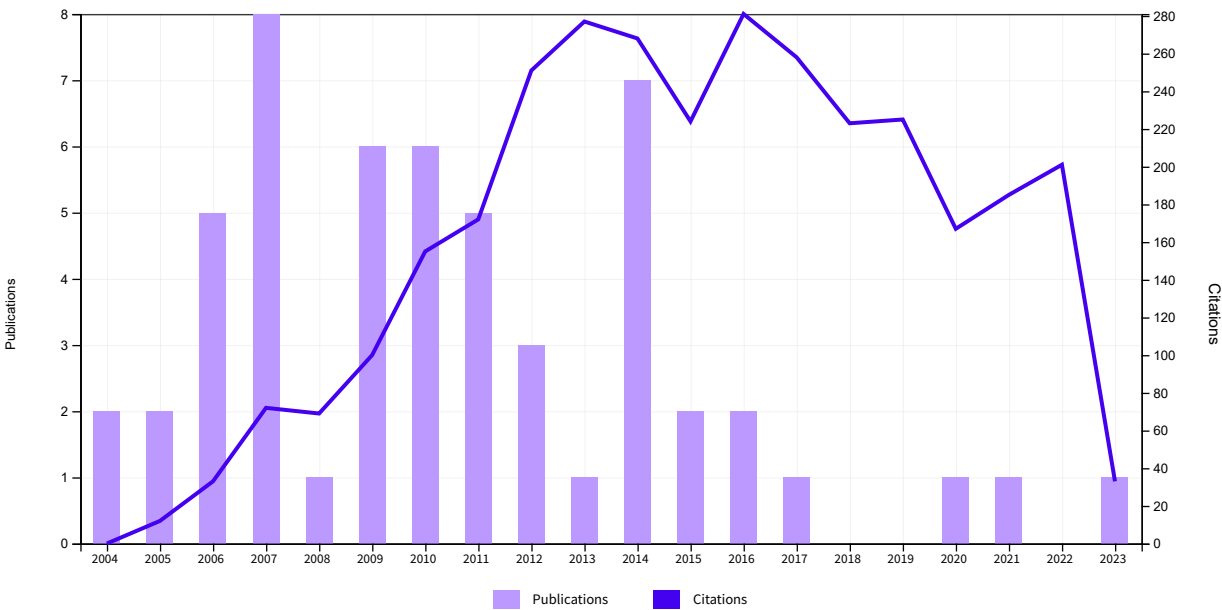
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185

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Direct electron transfer between copper-containing proteins and electrodes

Shleev, S; Tkac, J; (...); Gorton, L

1



	Jun 15 2005 BIOSENSORS & BIOELECTRONICS 20 (12) , pp.2517-2554							
⊖ 2	Effect of magnetite particle size on adsorption and desorption of arsenite and arsenate Yean, S; Cong, L; (...); Tomson, MB Dec 2005 JOURNAL OF MATERIALS RESEARCH 20 (12) , pp.3255-3264	24	19	24	15	2	17.68	336
⊖ 3	Preparation and properties of magnetic nano- and micro-sized particles for biological and environmental separations Horak, D; Babic, M; (...); Benes, MJ Jul 2007 JOURNAL OF SEPARATION SCIENCE 30 (11) , pp.1751-1772	11	12	8	11	2	17.88	304
⊖ 4	Preparation of magnetic molecularly imprinted polymer for the separation of tetracycline antibiotics from egg and tissue samples Chen, LG; Liu, J; (...); Ding, L May 1 2009 JOURNAL OF CHROMATOGRAPHY A 1216 (18) , pp.3710-3719	16	12	9	7	1	14.33	215
⊖ 5	Application of derivatized magnetic materials to the separation and the preconcentration of pollutants in water samples Chen, LG; Wang, T and Tong, J Jul-aug 2011 TRAC-TRENDS IN ANALYTICAL CHEMISTRY 30 (7) , pp.1095-1108	24	11	11	7	1	16.31	212
⊖ 6	Determination of fluoroquinolone antibiotics in environmental water samples based on magnetic molecularly imprinted polymer extraction followed by liquid chromatography-tandem mass spectrometry Chen, LG; Zhang, XP; (...); Ding, L Mar 3 2010 ANALYTICA CHIMICA ACTA 662 (1) , pp.31-38	15	8	8	7	1	12	168
⊖ 7	Immobilization of Candida rugosa lipase on electrospun cellulose nanofiber membrane Huang, XJ; Chen, PC; (...); Xu, ZK Jul 2011 JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC 70 (3-4) , pp.95-100	15	7	10	11	2	10.46	136
⊖ 8	Microarray technology as a universal tool for high-throughput analysis of biological systems Sobek, J; Bartscherer, K; (...); Angenendt, P Jun 2006 COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING 9 (5) , pp.365-380	1	3	1	3	0	4.56	82
⊖ 9	Magnetic nano- and microparticles in biotechnology Safarik, I and Safarikova, M 1st Nanomaterials and Nanotechnology Meeting Oct 2009 CHEMICAL PAPERS 63 (5) , pp.497-505	2	3	3	2	1	5.13	77
	Nano-organic supports for enzyme immobilization: Scopes and perspectives	0	0	15	53	8	25.33	76

10	Zahirinejad, S; Hemmati, R; (...); Vianello, F Aug 2021 Apr 2021 (Early Access) COLLOIDS AND SURFACES B-BIOINTERFACES 204 Enriched Cited References							
11	Enzyme immobilization on cellulose matrixes Liu, Y and Chen, JY Dec 2016 JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS 31 (6) , pp.553-567	6	16	13	13	4	8.63	69
12	Based on magnetic graphene oxide highly sensitive and selective imprinted sensor for determination of sunset yellow Li, JB; Wang, XJ; (...); Luo, CN Jan 15 2016 TALANTA 147 , pp.169-176	10	9	14	8	1	8.38	67
13	A novel magnetic adsorbent for immunoglobulin-G purification in a magnetically stabilized fluidized bed Ozkara, S; Akgol, S; (...); Denizli, A Jul-aug 2004 BIOTECHNOLOGY PROGRESS 20 (4) , pp.1169-1175	1	0	0	1	1	3.1	62
14	Flow injection chemiluminescence sensor based on core-shell magnetic molecularly imprinted nanoparticles for determination of chrysoidine in food samples Lu, FG; Sun, M; (...); Luo, CN Oct 2012 SENSORS AND ACTUATORS B-CHEMICAL 173 , pp.591-598	8	1	1	2	1	4.83	58
15	Self-assembly molecularly imprinted polymers of 17 beta-estradiol on the surface of magnetic nanoparticles for selective separation and detection of estrogenic hormones in feeds Wang, S; Li, Y; (...); Du, SH Sep 1 2011 JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES 879 (25) , pp.2595-2600	3	1	3	1	1	4.38	57
16	Preparation of magnetic TNT-imprinted polymer nanoparticles and their accumulation onto magnetic carbon paste electrode for TNT determination Alizadeh, T Nov 15 2014 BIOSENSORS & BIOELECTRONICS 61 , pp.532-540	6	5	7	3	0	5	50
17	Effects of organic solvents on the activity of free and immobilised laccase from Rhus vernicifera Wan, YY; Lu, R; (...); Kennedy, JF Nov 1 2010 INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 47 (4) , pp.488-495	9	6	6	4	0	3.29	46
18	Affinity-recognition-based polymeric cryogels for protein depletion studies	8	5	1	4	1	4.5	45

	Andac, M and Denizli, A 2014 RSC ADVANCES 4 (59) , pp.31130-31141							
19	Ultrasensitive molecularly imprinted electrochemical sensor based on magnetism graphene oxide/beta-cyclodextrin/Au nanoparticles composites for chrysoidine analysis Wang, XJ; Li, XJ; (...); Duan, HM Jun 1 2014 ELECTROCHIMICA ACTA 130 , pp.519-525	6	3	4	1	0	4.2	42
20	Immunoglobulin G depletion from human serum with metal-chelated beads under magnetic field Karatas, M; Akgol, S; (...); Denizli, A Feb 20 2007 INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 40 (3) , pp.254-260	0	0	0	3	0	2.18	37
21	Utilization of newly developed immobilized enzyme reactors for preparation and study of immunoglobulin G fragments Korecka, L; Bilkova, Z; (...); Przybylski, M 8th International Symposium on Polymer Designs for Bio Separation and Nanobiotechnology Aug 25 2004 JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES 808 (1) , pp.15-24	1	2	0	2	0	1.8	36
22	Laccase immobilized on magnetic carriers for biotechnology applications Rotkova, J; Sulakova, R; (...); Bilkova, Z 7th International Conference on Scientific and Clinical Applications of Magnetic Carriers May 2009 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 321 (10) , pp.1335-1340	1	4	3	2	0	2.13	32
23	Preparation of novel immunomagnetic cellulose microspheres via cellulose binding domain-protein A linkage and its use for the isolation of interferon alpha-2b Cao, Y; Zhang, Q; (...); Bai, G May 18 2007 JOURNAL OF CHROMATOGRAPHY A 1149 (2) , pp.228-235	0	1	0	2	0	1.82	31
24	Construction of biosensor for determination of galactose with galactose oxidase immobilized on polymeric mediator contains ferrocene Cevik, E; Senel, M and Abasiyanik, ME Sep 2010 CURRENT APPLIED PHYSICS 10 (5) , pp.1313-1316	2	2	1	2	0	2.14	30
25	Site-Specific Modification of Recombinant Proteins: A Novel Platform for Modifying Glycoproteins Expressed in E. coli Henderson, GE; Isett, KD and Gemgross, TU May 2011 BIOCONJUGATE CHEMISTRY 22 (5) , pp.903-912	4	2	3	2	0	2.23	29
		1	3	1	0	0	2.07	19 29

⊖ 26	Preparation of magnetic strong cation exchange resin for the extraction of melamine from egg samples followed by liquid chromatography-tandem mass spectrometry Xu, Y; Chen, LG; (...); Ding, L Feb 19 2010 ANALYTICA CHIMICA ACTA 661 (1) , pp.35-41							
⊖ 27	N-methacryloyl-(L)-histidine methyl ester carrying porous magnetic beads for metal chelate adsorption of cytochrome c Akkaya, B; Uzun, L; (...); Denizli, A Jan 2007 MATERIALS SCIENCE & ENGINEERING C-BIOMIMETIC AND SUPRAMOLECULAR SYSTEMS 27 (1) , pp.180-187	3	0	1	0	0	1.71	29
⊖ 28	Multi-walled carbon nanotube modified dummy-template magnetic molecularly imprinted microspheres as solid-phase extraction material for the determination of polychlorinated biphenyls in fish Du, XW; Lin, SC; (...); Zhan, P Jul 2014 JOURNAL OF SEPARATION SCIENCE 37 (13) , pp.1591-1600	2	0	2	0	1	2.8	28
⊖ 29	Preparation of magnetic mixed-templates molecularly imprinted polymer for the separation of tetracycline antibiotics from egg and honey samples Kong, JH; Wang, YZ; (...); Jia, XP Apr 2012 ANALYTICAL METHODS 4 (4) , pp.1005-1011	2	2	1	0	0	2	24
⊖ 30	An ultrasensitive molecularly imprinted electrochemical sensor based on graphene oxide/carboxylated multiwalled carbon nanotube/ionic liquid/gold nanoparticle composites for vanillin analysis Wang, XJ; Luo, CN; (...); Duan, HM 2015 RSC ADVANCES 5 (113) , pp.92932-92939	5	2	2	3	3	2.33	21
⊖ 31	Immobilization staphylococcal protein A on magnetic cellulose microspheres for IgG affinity purification Cao, Y; Tian, W; (...); Bai, G 2007 ARTIFICIAL CELLS BLOOD SUBSTITUTES AND BIOTECHNOLOGY 35 (5) , pp.467-480	0	0	1	2	0	1.24	21
⊖ 32	Development and characterization of methacrylate-based hydrazide monoliths for oriented immobilization of antibodies Brne, R; Lim, YP; (...); Strancar, A 3rd Summer School on Monolith Technology for Biochromatography, Bioconversion and Solid-Phase Synthesis Mar 27 2009 JOURNAL OF CHROMATOGRAPHY A 1216 (13) , pp.2658-2663	0	1	1	1	0	1.33	20
⊖ 33	Preparation and characterization of magnetic microspheres for the purification of interferon alpha-2b Cao, Y; Bai, G; (...); Yan, WB	0	1	1	0	0	1.11	20

	Apr 3 2006 JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES 833 (2) , pp.236-244							
⊖ 34	Expression, One-Step Purification, and Immobilization of HaloTag (TM) Fusion Proteins on Chloroalkane-Functionalized Magnetic Beads Motejadded, H; Kranz, B; (...); Altenbuchner, J Nov 2010 APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY 162 (7) , pp.2098-2110	2	1	0	1	0	1.36	19
⊖ 35	Methacryloylamidoglutamic acid having porous magnetic beads as a stationary phase in metal chelate affinity chromatography Altintas, EB; Yavuz, H; (...); Denizli, A 2006 JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION 17 (1-2) , pp.213-226	0	1	0	1	1	0.94	17
⊖ 36	Modification of Fe3O4 magnetic nanoparticles by L-dopa or dopamine as an enzyme support Peng, H; Zhang, X; (...); Xu, HB Aug 2008 JOURNAL OF WUHAN UNIVERSITY OF TECHNOLOGY-MATERIALS SCIENCE EDITION 23 (4) , pp.480-485	2	1	0	2	0	1	16
⊖ 37	Preparation of magnetic nanoparticles modified by amphiphilic copolymers Bao, HL; Chen, ZM; (...); Liu, JZ Aug 2006 MATERIALS LETTERS 60 (17-18) , pp.2167-2170	0	0	1	0	0	0.89	16
⊖ 38	Preparation of Cellulose Magnetic Microspheres with "The Smallest Critical Size" and Their Application for Microbial Immunocapture Tang, Y; Zhang, Q; (...); Bai, G Jul 6 2010 LANGMUIR 26 (13) , pp.11266-11271	1	1	2	0	0	1.07	15
⊖ 39	Synthesis and characterization of monosize magnetic poly(glycidyl methacrylate) beads Altintas, EB; Uzun, L and Denizli, A Feb-apr 2007 CHINA PARTICUOLOGY 5 (1-2) , pp.174-179	1	0	1	0	0	0.88	15
⊖ 40	Immobilization of a nonspecific chitosan hydrolytic enzyme for application in preparation of water-soluble low-molecular-weight chitosan Feng, T; Du, YM; (...); Shi, XW Aug 5 2006 JOURNAL OF APPLIED POLYMER SCIENCE 101 (3) , pp.1334-1339	0	0	0	0	0	0.83	15
	A novel reductive graphene oxide-based magnetic molecularly imprinted poly (ethylene-co-vinyl alcohol) polymers for the	0	0	3	1	0	1.44	13

41	enrichment and determination of polychlorinated biphenyls in fish samples Lin, SC; Gan, N; (...); Li, TH Jun 2015 JOURNAL OF MOLECULAR RECOGNITION 28 (6) , pp.359-368						
42	MAGNETIC DYE-AFFINITY BEADS FOR HUMAN SERUM ALBUMIN PURIFICATION Odabasi, M 2011 PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY 41 (3) , pp.287-304	1	2	0	2	0	13
43	Hydrothermal synthesis and characterization of carbohydrate microspheres coated with magnetic nanoparticles Wang, W and Zhang, ZK 2007 JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY 28 (4) , pp.557-561	2	0	1	1	0	13
44	Preparation and Adsorption Property of Glutathione Magnetic Molecularly Imprinted Polymers Wang, RJ; Ma, YX; (...); Du, XY May 15 2014 ACTA CHIMICA SINICA 72 (5) , pp.577-582	0	0	1	0	0	11
45	Concanavalin a Immobilized Monosize and Magnetic Poly(glycidyl Methacrylate) Beads for Use in Yeast Invertase Adsorption Akkaya, B; Uzun, L; (...); Denizli, A 2009 JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY 46 (3) , pp.232-239	0	0	0	1	0	10
46	On-line analysis of sulfonamides in pharmaceutical wastewater based on magnetic molecularly imprinted polymer extraction and near infrared spectroscopy Fu, QB; He, XP; (...); Zhao, C Jun 2012 ANALYTICAL METHODS 4 (6) , pp.1813-1819	0	1	1	2	0	9
47	One-step purification of a fusion protein of glucagon-like peptide-1 and human serum albumin expressed in Pichia pastoris by an immunomagnetic separation technique Chen, JQ; Bai, G; (...); Yang, WB Nov 2007 BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY 71 (11) , pp.2655-2662	1	0	0	0	0	8
48	Preparation of novel magnetic cellulose microspheres via cellulose binding domain-streptavidin linkage and use for mRNA isolation from eukaryotic cells and tissues Gao, ZH; Zhang, Q; (...); Bai, G Nov 6 2009 JOURNAL OF CHROMATOGRAPHY A 1216 (45) , pp.7670-7676	1	0	1	0	0	7
49	Probing structural and catalytic characteristics of galactose oxidase confined in nanoscale chemical environments	0	1	1	0	0	6

⊖ Ikemoto, H; Mossin, SL; (...); Chi, QJ 2014 RSC ADVANCES 4 (42) , pp.21939-21950							
⊕ A tosyl-activated magnetic bead cellulose as solid support for sensitive protein detection							

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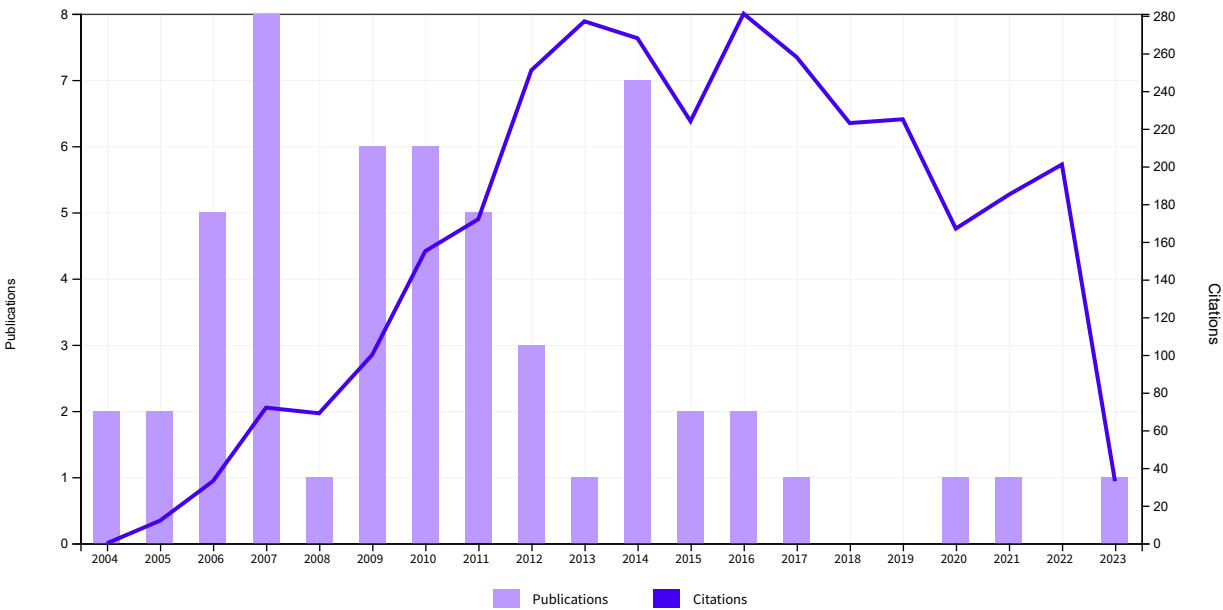
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A Novel Method to Prepare Magnetic Polymer-Based Anion Exchangers and Their Application						2	0	0	0	0	0.3	3
Lin, YZ; Wang, TH: (...); Lee, WC												

Sep 5 2014 JOURNAL OF APPLIED POLYMER SCIENCE 131 (17)								
52	Preparation of magnetic molecularly imprinted nanoparticles for selective separation and determination of prednisolone drug Karimi, MA; Ranjbar, M and Behzadi, Z 2017 INORGANIC AND NANO-METAL CHEMISTRY 47 (2) , pp.308-312	0	1	0	0	0	0.14	1
53	Synthesis and thermal characterization of porous polymeric microspheres functionalized with thiol groups Maciejewska, M and Grochowicz, M Feb 2023 (Early Access) JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	0	0	0	0	0	0	0
54	Adsorptive removal of Fe(III) using gallic acid anchored iron magnetic nano-adsorbents synthesized via two different routes under microwave irradiation Rahim, AMA; Ahmed, SA and Soliman, EM Jan 2020 INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY 59 (1) , pp.9-20	0	0	0	0	0	0	0
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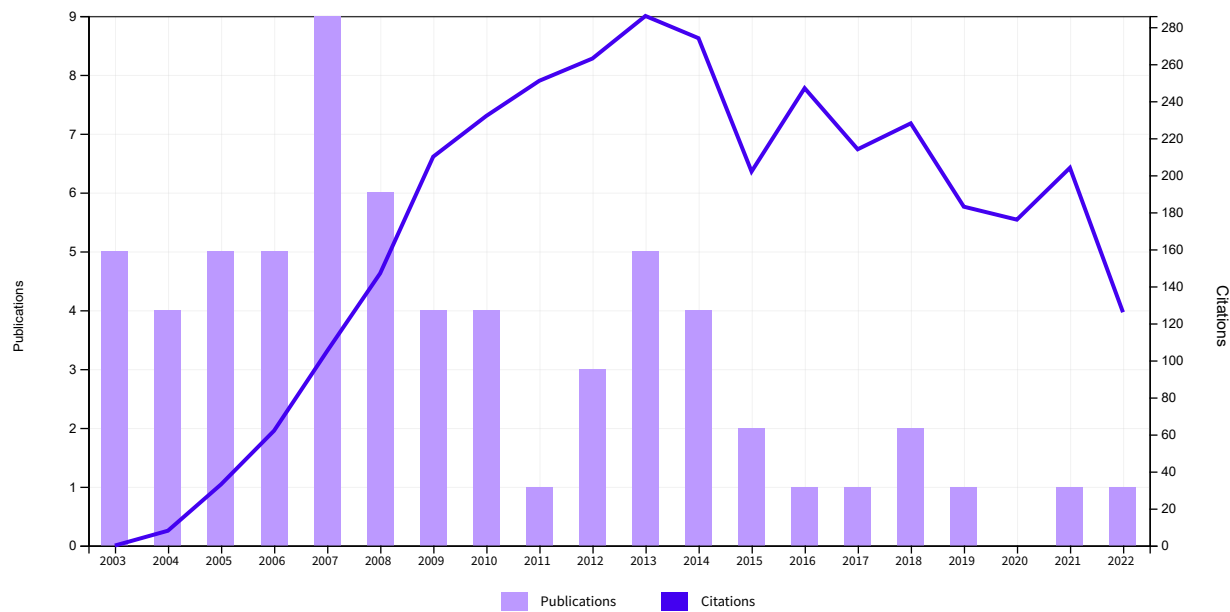
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1	Effect of magnetite particle size on adsorption and desorption of arsenite and arsenate	25	24	19	24	13	
	Yean, S; Cong, L; (...); Tomson, MB						



	Dec 2005 JOURNAL OF MATERIALS RESEARCH 20 (12) , pp.3255-3264					
⊖ 2	Preparation and properties of magnetic nano- and microsized particles for biological and environmental separations Horak, D; Babic, M; (...); Benes, MJ Jul 2007 JOURNAL OF SEPARATION SCIENCE 30 (11) , pp.1751-1772	16	11	12	8	10
⊖ 3	Superparamagnetic nanoparticles as versatile carriers and supporting materials for enzymes Netto, CGCM; Toma, HE and Andrade, LH Jan 2013 JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC 85-86 , pp.71-92	36	23	20	25	14
⊖ 4	Surface modification and characterization of magnetic polymer nanospheres prepared by miniemulsion polymerization Liu, XQ; Guan, YP; (...); Liu, HZ Nov 9 2004 LANGMUIR 20 (23) , pp.10278-10282	10	7	4	3	2
⊖ 5	Increasing protein stability through control of the nanoscale environment Asuri, P; Karajanagi, SS; (...); Dordick, JS Jun 20 2006 LANGMUIR 22 (13) , pp.5833-5836	6	8	5	8	1
⊖ 6	Optimization protocols and improved strategies of cross-linked enzyme aggregates technology: current development and future challenges Cui, JD and Jia, SR Mar 2015 CRITICAL REVIEWS IN BIOTECHNOLOGY 35 (1) , pp.15-28	34	26	29	23	17
⊖ 7	Immobilization of lipase onto micron-size magnetic beads Liu, XQ; Guan, YP; (...); Liu, HZ Aug 5 2005 JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES 822 (1-2) , pp.91-97	6	9	2	5	1
⊖ 8	Synthesis of amino-silane modified superparamagnetic silica supports and their use for protein immobilization Liu, XQ; Xing, JM; (...); Liu, HZ May 4 2004 COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS 238 (1-3) , pp.127-131	9	5	3	3	1
⊖ 9	Immobilization of trypsin on superparamagnetic nanoparticles for rapid and effective proteolysis Xu, XQ; Deng, CH; (...); Zhang, XM Sep 2007 JOURNAL OF PROTEOME RESEARCH 6 (9) , pp.3849-3855	5	2	3	6	0
⊖ 10	Biodesulfurization of dibenzothiophene by microbial cells coated with magnetite nanoparticles	9	6	6	7	6



	Shan, GB; Xing, JM; (...); Liu, HZ Aug 2005 APPLIED AND ENVIRONMENTAL MICROBIOLOGY 71 (8) , pp.4497-4502					
11	A simple synthesis of amine-derivatised superparamagnetic iron oxide nanoparticles for bioapplications Mohapatra, S; Pramanik, N; (...); Pramanik, P Sep 2007 JOURNAL OF MATERIALS SCIENCE 42 (17) , pp.7566-7574	8	4	4	3	4
12	Synthesis and characterization of highly-magnetic biodegradable poly(D,L-lactide-co-glycolide) nanospheres Liu, XQ; Kaminski, MD; (...); Rosengart, AJ May 14 2007 JOURNAL OF CONTROLLED RELEASE 119 (1) , pp.52-58	5	2	5	2	1
13	Applications of silica supports in affinity chromatography Schiel, JE; Mallik, R; (...); Hage, DS Apr 2006 JOURNAL OF SEPARATION SCIENCE 29 (6) , pp.719-737	2	4	4	5	3
14	Silica nanotubes for lysozyme immobilization Ding, HM; Shao, L; (...); Chen, JF Oct 1 2005 JOURNAL OF COLLOID AND INTERFACE SCIENCE 290 (1) , pp.102-106	1	5	5	1	1
15	Preparation and characterization of magnetic polymer nanospheres with high protein binding capacity Liu, XQ; Guan, YP; (...); Wu, XB 5th International Conference on Scientific and Clinical Applications of Magnetic Carriers May 1 2005 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 293 (1) , pp.111-118	3	1	3	1	0
16	Facilitated electron transfer of hemoglobin embedded in nanosized Fe₃O₄ matrix based on paraffin impregnated graphite electrode and electrochemical catalysis for trichloroacetic acid Gong, JM and Lin, XG Jul 2003 MICROCHEMICAL JOURNAL 75 (1) , pp.51-57	1	2	4	0	2
17	Immobilization of Candida rugosa lipase on magnetic sol-gel composite supports for enzymatic resolution of (R,S)-Naproxen methyl ester Yilmaz, E; Sezgin, M and Yilmaz, M Apr 2011 JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC 69 (1-2) , pp.35-41	5	1	3	4	2
18	A novel approach to hollow superparamagnetic magnetite/polystyrene nanocomposite microspheres via interfacial polymerization Yang, S and Liu, HR 2006 JOURNAL OF MATERIALS CHEMISTRY 16 (46) , pp.4480-4487	2	1	0	1	0
19	Preparation and characterization of temperature-responsive magnetite nanoparticles conjugated with N-isopropylacrylamide-based functional copolymer Wakamatsu, H; Yamamoto, K; (...); Aoyagi, T Jul 2006 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 302 (2) , pp.327-333	1	1	2	0	0



20	Immobilization of <i>Pseudomonas delafieldii</i> with magnetic polyvinyl alcohol beads and its application in biodesulfurization Shan, GB; Xing, JM; (...); Chen, JY Dec 2003 BIOTECHNOLOGY LETTERS 25 (23) , pp.1977-1981	3	2	1	6	4
21	Immunomagnetic separation and detection of <i>Salmonella</i> cells using newly designed carriers Spanova, A; Rittich, B; (...); Strumcova, S 22nd International Symposium on the Separation of Proteins, Peptides and Polynucleotides (ISPPP 02) Aug 15 2003 JOURNAL OF CHROMATOGRAPHY A 1009 (1-2) , pp.215-221	2	1	0	0	0
22	Poly(hydroxyethyl methacrylate) nanobeads containing imidazole groups for removal of Cu(II) ions Turkmen, D; Yilmaz, E; (...); Denizli, A Aug 1 2009 MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS 29 (6) , pp.2072-2078	4	2	2	1	1
23	Magnetic polymer microspheres with polymer brushes and the immobilization of protein on the brushes Huang, JS; Han, BZ; (...); Yan, HS 2007 JOURNAL OF MATERIALS CHEMISTRY 17 (36) , pp.3812-3818	1	1	1	1	0
24	Immobilization of penicillin G acylase on poly[(glycidyl methacrylate)-co-(glycerol monomethacrylate)]-grafted magnetic microspheres Huang, JS; Li, XT; (...); Yan, HS Jun 11 2008 MACROMOLECULAR BIOSCIENCE 8 (6) , pp.508-515	2	1	0	0	0
25	A facile route to hollow superparamagnetic magnetite/polystyrene nanocomposite microspheres via inverse miniemulsion polymerization Yang, S; Liu, HR and Zhang, ZC Jun 15 2008 JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY 46 (12) , pp.3900-3910	1	2	0	0	0
26	Immobilization of enzymes on nanoinorganic support materials: An update Ashkan, Z; Hemmati, R; (...); Tashakor, A Jan 31 2021 Jan 2021 (Early Access) INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 168 , pp.708-721	0	0	0	23	19
27	Fabrication of novel multihollow superparamagnetic magnetite/polystyrene nanocomposite microspheres via water-in-oil-in-water double emulsions Yang, S; Liu, HR and Zhang, ZC Sep 16 2008 LANGMUIR 24 (18) , pp.10395-10401	3	1	1	0	1
28	Utilization of newly developed immobilized enzyme reactors for preparation and study of immunoglobulin G fragments Korecka, L; Bilkova, Z; (...); Przybylski, M 8th International Symposium on Polymer Designs for Bio Separation and Nanobiotechnology	1	1	2	0	2



Aug 25 2004 JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES						
⊖ 29	High capacity binding of antibodies by poly(hydroxyethyl methacrylate) nanoparticles Ozturk, N ; Bereli, N ; (...); Denizli, A Nov 15 2008 COLLOIDS AND SURFACES B-BIOINTERFACES 67 (1) , pp.14-19	2	0	0	0	1
⊖ 30	Preparation of novel immunomagnetic cellulose microspheres via cellulose binding domain-protein A linkage and its use for the isolation of interferon alpha-2b Cao, Y ; Zhang, Q ; (...); Bai, G May 18 2007 JOURNAL OF CHROMATOGRAPHY A 1149 (2) , pp.228-235	0	0	1	0	1
⊖ 31	Improvements of lipase performance in high-viscosity system by immobilization onto a novel kind of poly(methylmethacrylate-co-divinylbenzene) encapsulated porous magnetic microsphere carrier Meng, X ; Xu, G ; (...); Yang, LR May 2013 JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC 89 , pp.86-92	0	3	6	0	0
⊖ 32	Synthesis and properties of micron-size magnetic polymer spheres with epoxy groups Liu, XQ ; Guan, YP ; (...); Liu, HH Dec 2003 CHINESE JOURNAL OF CHEMICAL ENGINEERING 11 (6) , pp.731-735	0	0	0	0	0
⊖ 33	Immobilization of Cross-Linked Phenylalanine Ammonia Lyase Aggregates in Microporous Silica Gel Cui, JD ; Li, LL and Bian, HJ Nov 15 2013 PLOS ONE 8 (11)	3	1	3	1	3
⊖ 34	Comparative study of the three different fluorophore antibody conjugation strategies Shrestha, D ; Bagosi, A ; (...); Jenei, A Sep 2012 ANALYTICAL AND BIOANALYTICAL CHEMISTRY 404 (5) , pp.1449-1463	2	2	2	9	1
⊖ 35	Silane-modified magnetic beads: Application to immunoglobulin G separation Ozturk, N ; Gunay, ME ; (...); Denizli, A Sep-oct 2007 BIOTECHNOLOGY PROGRESS 23 (5) , pp.1149-1156	0	0	1	1	0
⊖ 36	Immobilization of the cross-linked para-nitrobenzyl esterase of Bacillus subtilis aggregates onto magnetic beads Park, JM ; Kim, M ; (...); Kim, YH Feb 2010 PROCESS BIOCHEMISTRY 45 (2) , pp.259-263	1	1	3	0	0
⊖ 37	Entrapment of enzyme-linked magnetic nanoparticles within poly(ethylene glycol) hydrogel microparticles prepared by photopatterning Park, S ; Lee, Y ; (...); Koh, WG May 2009 REACTIVE & FUNCTIONAL POLYMERS 69 (5) , pp.293-299	0	1	3	0	0
		2	0	0	1	



38	Immobilization staphylococcal protein A on magnetic cellulose microspheres for IgG affinity purification Cao, Y; Tian, W; (...); Bai, G 2007 ARTIFICIAL CELLS BLOOD SUBSTITUTES AND BIOTECHNOLOGY35 (5) , pp.467-480					
39	Preparation and characterization of magnetic microspheres for the purification of interferon alpha-2b Cao, Y; Bai, G; (...); Yan, WB Apr 3 2006 JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES833 (2) , pp.236-244	1	0	1	1	0
40	Non-porous magnetic micro-particles: Comparison to porous enzyme carriers for a diffusion rate-controlled enzymatic conversion Magario, J; Ma, X; (...); Hausmann, R Mar 20 2008 JOURNAL OF BIOTECHNOLOGY134 (1-2) , pp.72-78	1	1	2	0	0
41	Monodispersed Magnetic Polystyrene Beads with Excellent Colloidal Stability and Strong Magnetic Response Niu, M; Du, MH; (...); Gao, MY Oct 18 2010 MACROMOLECULAR RAPID COMMUNICATIONS31 (20) , pp.1805-1810	3	0	1	1	0
42	Cholesterol removal onto the different hydrophobic nanospheres: A comparison study Kalburcu, T; Ozturk, N; (...); Denizli, A Jan 25 2014 JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY20 (1) , pp.153-159	3	2	2	2	0
43	Preparation of Cellulose Magnetic Microspheres with "The Smallest Critical Size" and Their Application for Microbial Immunocapture Tang, Y; Zhang, Q; (...); Bai, G Jul 6 2010 LANGMUIR26 (13) , pp.11266-11271	0	1	1	2	0
44	Carbon dioxide/methanol conversion cycle based on cascade enzymatic reactions supported on superparamagnetic nanoparticles Netto, CGCM; Andrade, LH and Toma, HE 2018 ANAIS DA ACADEMIA BRASILEIRA DE CIENCIAS90 (1) , pp.593-606	0	3	3	2	6
64 Publications Sort by: Citations: highest first <1of 2>		Citations <Previous year Next year> 2018 2019 2020 2021 2022				
46	Biofunctional magnetic nanoparticles as a general agent to immobilize proteins contained in traditional Chinese medicines Shen, HB; Chen, W; (...); Yang, HF Jan 2007 MICROCHIMICA ACTA157 (1-2) , pp.49-54	0	0	1	2	1

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47	Studies on the nanocomposites based on carboxymethyl starch-g-lactic acid-co-glycolic acid copolymer and magnetite Tudorachi, N; Chiriac, AP; (...); Lisa, G Feb 2018 JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY 131 (2) , pp.1867-1880	0	2	3	5	0
48	Systematic comparisons of genetically modified organism DNA separation and purification by various functional magnetic nanoparticles Zhao, Y; Hao, CL; (...); Xu, CL May 2012 INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY 47 (5) , pp.910-917	0	4	0	1	1
49	Semisynthesis of C17:0 isoforms of sulphatide and glucosylceramide using immobilised sphingolipid ceramide N-deacylase for application in analytical mass spectrometry Kuchar, L; Rotkova, J; (...); Ledvinova, J Aug 2010 RAPID COMMUNICATIONS IN MASS SPECTROMETRY 24 (16) , pp.2393-2399	2	0	0	0	0
50	Preparation and characterization of monodisperse superparamagnetic poly(vinyl alcohol) beads by reverse spray suspension Crosslinking Yang, CL; Guan, YP; (...); Liu, HZ Jan 1 2008 JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY 46 (1) , pp.203-210	0	0	0	1	0

Citation Report Publications Table

⊖ 51 Direct Electrochemistry of horseradish peroxidase embedded in nano-Fe₃O₄ matrix on paraffin impregnated graphite electrode and its electrochemical catalysis for H₂O₂	Total	228	183	176	204	126	181.63	3,451
		0	0	0	1	1	0.5	10

Gong, JM and Lin, XO Jul 2003 CHINESE JOURNAL OF CHEMISTRY 21 (7) , pp.761-766								
 52	Preparation of Magnetic Microsphere-Gold Nanoparticle-Immobilized Enzyme Batch Reactor and Its Application to Enzyme Inhibitor Screening in Natural Extracts by Capillary Electrophoresis Wang, HS; Lin, PT; (...); Liang, H Jun 2017 CHINESE JOURNAL OF CHEMISTRY 35 (6) , pp.943-948	2	3	0	3	0	1.33	8
 53	Superparamagnetic nano-immunobeads toward food safety insurance Liu, XF; Zhang, L; (...); Tang, ZY Jul 2013 JOURNAL OF NANOPARTICLE RESEARCH 15 (7)	1	1	0	1	0	0.8	8
 54	Dual improvement of DNA-directed antibody immobilization utilizing magnetic fishing and a polyamine coated surface Esmaeili, E; Soleimani, M; (...); Vossoughi, M 2016 RSC ADVANCES 6 (112) , pp.111210-111216	1	2	1	0	0	1	7
 55	Improvement of catalytic activity of lipase in the presence of wide rim substituted calix[4]arene carboxylic acid-grafted magnetic nanoparticles Akceylan, E; Sahin, O and Yilmaz, M Jun 2014 JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY 79 (1-2) , pp.113-123	0	0	0	0	0	0.78	7
 56	Preparation of novel magnetic cellulose microspheres via cellulose binding domain-streptavidin linkage and use for mRNA isolation from eukaryotic cells and tissues Gao, ZH; Zhang, Q; (...); Bai, G Nov 6 2009 JOURNAL OF CHROMATOGRAPHY A 1216 (45) , pp.7670-7676	0	1	0	1	0	0.5	7
 57	Preparation and Properties of Photosensitizer Loaded Magnetic Nanocarriers Liu, FX; Zhou, XP; (...); Chen, ZL Aug 2009 CURRENT NANOSCIENCE 5 (3) , pp.293-296	0	1	0	0	0	0.5	7
 58	Continuous enantiomer-selective acylation reaction of 1-phenylethanamine in a magnetic fluidized bed reactor system (MFBRs) Ou, ZM; Pan, JY; (...); Shi, HB Jun 2019 JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY 94 (6) , pp.1951-1957	0	0	2	3	1	1.5	6
A tosyl-activated magnetic bead cellulose as solid support for		0	0	0	1	0	0.5	5
64 Publications		Citations						
Sort by: Citations: highest first ▼		50 ?						
		< Previous year Next year >						
		Average per						



		2018	2019	2020	2021	2022	year	total
60	a focus on electrodes? applications Tawalbeh, M; Javed, RMN; (...); Almomani, F Aug 15 2022 FUEL 322	0	0	0	0	2	2	2
61	INORGANIC SILICA NANOFIBERS IN A ROLE OF BIOACTIVE COMPOUND CARRIER Rotkova, J; Tomankova, H and Rysova, M 7th International Conference on Nanomaterials - Research and Application 2015 NANOCON 2015: 7TH INTERNATIONAL CONFERENCE ON NANOMATERIALS - RESEARCH & APPLICATION, pp.413-418	0	0	0	0	0	0.13	1
62	Prepared Patterned Magnetic Composite Microspheres by Emulsion Polymerization Yin, R and Zhao, JL International Conference on Mechatronics Engineering and Computing Technology (ICMECT) 2014 MECHATRONICS ENGINEERING, COMPUTING AND INFORMATION TECHNOLOGY 556-562, pp.105-108	0	1	0	0	0	0.11	1
63	Precast nanosized Fe3O4 dispersion as fine tuner of a controllable electrochemical interface on Pt-supported bilayer lipidlike membrane Gong, JM and Lin, XO 2004 JOURNAL OF THE ELECTROCHEMICAL SOCIETY 151 (9), pp.B519-B522	0	0	0	0	0	0.05	1
64	Synthesis of the Mono-Disperse Magnetic Cross-Linked Composite Micro-spheres Containing the Functional Group Zhao, JL and Rong, Y International Conference on Advanced Materials and Sports Equipment Design 2014 ADVANCED MATERIALS & SPORTS EQUIPMENT DESIGN 440, pp.50-53	0	0	0	0	0	0	0

Citation Report Publications Table



V Pardubicích 16. 4. 2023

Mgr. Marcela Slováková, Ph.D.