

Antonio Guerreiro

List of Publications by Year in descending order

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60
papers

3,444
citations

136950

32
h-index

138484

58
g-index

62
all docs

62
docs citations

62
times ranked

3104
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-phase Synthesis of Molecularly Imprinted Polymer Nanoparticles with a Reusable Template—Plastic Antibodies—Advanced Functional Materials, 2013, 23, 2821-2827.	14.9	313
2	Solid-phase synthesis of molecularly imprinted nanoparticles. Nature Protocols, 2016, 11, 443-455.	12.0	282
3	How to find effective functional monomers for effective molecularly imprinted polymers?. Advanced Drug Delivery Reviews, 2005, 57, 1795-1808.	13.7	229
4	Sensing and analysis of soluble phosphates in environmental samples: A review. Biosensors and Bioelectronics, 2013, 41, 1-11.	10.1	211
5	Direct Replacement of Antibodies with Molecularly Imprinted Polymer Nanoparticles in ELISA—Development of a Novel Assay for Vancomycin. Analytical Chemistry, 2013, 85, 8462-8468.	6.5	186
6	Detection of Waterborne Viruses Using High Affinity Molecularly Imprinted Polymers. Analytical Chemistry, 2015, 87, 6801-6807.	6.5	157
7	Specific Drug Delivery to Cancer Cells with Double-Imprinted Nanoparticles against Epidermal Growth Factor Receptor. Nano Letters, 2018, 18, 4641-4646.	9.1	128
8	Influence of initiator and different polymerisation conditions on performance of molecularly imprinted polymers. Biosensors and Bioelectronics, 2006, 22, 381-387.	10.1	97
9	A comparison of the performance of molecularly imprinted polymer nanoparticles for small molecule targets and antibodies in the ELISA format. Scientific Reports, 2016, 6, 37638.	3.3	94
10	Direct potentiometric quantification of histamine using solid-phase imprinted nanoparticles as recognition elements. Biosensors and Bioelectronics, 2014, 58, 138-144.	10.1	85
11	Automatic reactor for solid-phase synthesis of molecularly imprinted polymeric nanoparticles (MIP) Tj ETQq1 1 0.784314 rgBT /Overlock	3.6	84
12	NanoMIP based optical sensor for pharmaceuticals monitoring. Sensors and Actuators B: Chemical, 2015, 213, 305-313.	7.8	84
13	Surface-modified multifunctional MIP nanoparticles. Nanoscale, 2013, 5, 3733.	5.6	79
14	Solid-phase synthesis of electroactive nanoparticles of molecularly imprinted polymers. A novel platform for indirect electrochemical sensing applications. Sensors and Actuators B: Chemical, 2016, 229, 174-180.	7.8	73
15	Virtual imprinting as a tool to design efficient MIPs for photosynthesis-inhibiting herbicides. Biosensors and Bioelectronics, 2007, 22, 1948-1954.	10.1	66
16	Polymer Cookery: Influence of Polymerization Time and Different Initiation Conditions on Performance of Molecularly Imprinted Polymers. Macromolecules, 2005, 38, 1410-1414.	4.8	61
17	Cubic Molecularly Imprinted Polymer Nanoparticles with a Fluorescent Core. Angewandte Chemie - International Edition, 2012, 51, 5196-5199.	13.8	61
18	Selective vancomycin detection using optical fibre long period gratings functionalised with molecularly imprinted polymer nanoparticles. Analyst, The, 2014, 139, 2229-2236.	3.5	61

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19	Biocompatibility and internalization of molecularly imprinted nanoparticles. <i>Nano Research</i> , 2016, 9, 3463-3477.	10.4	61
20	Influence of Surface-Imprinted Nanoparticles on Trypsin Activity. <i>Advanced Healthcare Materials</i> , 2014, 3, 1426-1429.	7.6	54
21	PEG-Stabilized Core-Shell Surface-Imprinted Nanoparticles. <i>Langmuir</i> , 2013, 29, 9891-9896.	3.5	51
22	Polymer Cookery. 2. Influence of Polymerization Pressure and Polymer Swelling on the Performance of Molecularly Imprinted Polymers. <i>Macromolecules</i> , 2004, 37, 5018-5022.	4.8	49
23	A novel capacitive sensor based on molecularly imprinted nanoparticles as recognition elements. <i>Biosensors and Bioelectronics</i> , 2018, 120, 108-114.	10.1	48
24	Preliminary evaluation of new polymer matrix for solid-phase extraction of nonylphenol from water samples. <i>Analytica Chimica Acta</i> , 2008, 612, 99-104.	5.4	47
25	Chiral imprinted polymers as enantiospecific coatings of stir bar sorptive extraction devices. <i>Biosensors and Bioelectronics</i> , 2011, 28, 25-32.	10.1	47
26	Sensor based on electrosynthesised imprinted polymeric film for rapid and trace detection of copper(II) ions. <i>Sensors and Actuators B: Chemical</i> , 2020, 307, 127648.	7.8	46
27	Optimisation of experimental conditions for synthesis of high affinity MIP nanoparticles. <i>European Polymer Journal</i> , 2013, 49, 100-105.	5.4	45
28	Computational design of molecularly imprinted polymer for direct detection of melamine in milk. <i>Separation Science and Technology</i> , 2017, 52, 1441-1453.	2.5	41
29	Epitope approach in molecular imprinting of antibodies. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1124, 1-6.	2.3	41
30	Modulation of Quorum Sensing in a Gram-Positive Pathogen by Linear Molecularly Imprinted Polymers with Anti-Infective Properties. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16555-16558.	13.8	39
31	Introducing MINA – The Molecularly Imprinted Nanoparticle Assay. <i>Small</i> , 2014, 10, 1086-1089.	10.0	37
32	Removal of heavy metals using different polymer matrixes as support for bacterial immobilisation. <i>Journal of Hazardous Materials</i> , 2011, 191, 277-286.	12.4	35
33	Comparison of thin-layer and bulk MIPs synthesized by photoinitiated in situ crosslinking polymerization from the same reaction mixtures. <i>Journal of Applied Polymer Science</i> , 2005, 98, 362-372.	2.6	31
34	A pseudo-ELISA based on molecularly imprinted nanoparticles for detection of gentamicin in real samples. <i>Analytical Methods</i> , 2017, 9, 2853-2858.	2.7	30
35	Molecularly imprinted nanoparticles grafted to porous silica as chiral selectors in liquid chromatography. <i>Journal of Chromatography A</i> , 2017, 1508, 53-64.	3.7	28
36	Optimisation of the synthesis of vancomycin-selective molecularly imprinted polymer nanoparticles using automatic photoreactor. <i>Nanoscale Research Letters</i> , 2014, 9, 154.	5.7	26

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37	Direct detection of small molecules using a nano-molecular imprinted polymer receptor and a quartz crystal resonator driven at a fixed frequency and amplitude. <i>Biosensors and Bioelectronics</i> , 2020, 158, 112176.	10.1	26
38	Chimeric polymers formed from a monomer capable of free radical, oxidative and electrochemical polymerisation. <i>Chemical Communications</i> , 2009, , 2759.	4.1	22
39	Conjugated Polymers with Pendant Iniferter Units: Versatile Materials for Grafting. <i>Macromolecules</i> , 2011, 44, 1856-1865.	4.8	20
40	Molecularly imprinted polymers as a tool for the study of the 4-ethylphenol metabolic pathway in red wines. <i>Journal of Chromatography A</i> , 2015, 1410, 164-172.	3.7	20
41	Biomimetic Silica Nanoparticles Prepared by a Combination of Solid-Phase Imprinting and Ostwald Ripening. <i>Scientific Reports</i> , 2017, 7, 11537.	3.3	20
42	Rational design and chromatographic evaluation of histamine imprinted polymers optimised for solid-phase extraction of wine samples. <i>Journal of Chromatography A</i> , 2013, 1308, 45-51.	3.7	18
43	A molecular imprinted polymer based sensor for measuring phosphate in wastewater samples. <i>Water Science and Technology</i> , 2014, 69, 48-54.	2.5	18
44	Conductance based sensing and analysis of soluble phosphates in wastewater. <i>Biosensors and Bioelectronics</i> , 2014, 52, 173-179.	10.1	18
45	Preliminary evaluation of military, commercial and novel skin decontamination products against a chemical warfare agent simulant (methyl salicylate). <i>Cutaneous and Ocular Toxicology</i> , 2016, 35, 137-144.	1.3	18
46	Enantioselective extraction of (+)-(S)-citalopram and its main metabolites using a tailor-made stir bar chiral imprinted polymer for their LC-ESI-MS/MS quantitation in urine samples. <i>Talanta</i> , 2013, 116, 448-453.	5.5	17
47	Development of optical immunosensors for detection of proteins in serum. <i>Talanta</i> , 2013, 103, 260-266.	5.5	17
48	The stabilisation of receptor structure in low cross-linked MIPs by an immobilised template. <i>Soft Matter</i> , 2009, 5, 311-317.	2.7	15
49	Synthesis of 2-(diethylamino)ethyl methacrylate-based polymers. <i>Reactive and Functional Polymers</i> , 2010, 70, 890-899.	4.1	15
50	Florfenicol Binding to Molecularly Imprinted Polymer Nanoparticles in Model and Real Samples. <i>Nanomaterials</i> , 2020, 10, 306.	4.1	12
51	Modulation of Quorum Sensing in a Gram-Positive Pathogen by Linear Molecularly Imprinted Polymers with Anti-infective Properties. <i>Angewandte Chemie</i> , 2017, 129, 16782-16785.	2.0	10
52	Probing Peptide Sequences on Their Ability to Generate Affinity Sites in Molecularly Imprinted Polymers. <i>Langmuir</i> , 2020, 36, 279-283.	3.5	10
53	Microplates with enhanced immobilization capabilities controlled by a magnetic field. <i>Journal of the Chinese Advanced Materials Society</i> , 2014, 2, 118-129.	0.7	9
54	Negative selection of MIPs to create high specificity ligands for glycosylated haemoglobin. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 126967.	7.8	9

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55	Molecularly Imprinted Nanoparticles (NanoMIPs) Selective for Proteins: Optimization of a Protocol for Solid-Phase Synthesis Using Automatic Chemical Reactor. <i>Polymers</i> , 2021, 13, 314.	4.5	9
56	Macroradical initiated polymerisation of acrylic and methacrylic monomers. <i>Journal of Separation Science</i> , 2009, 32, 3340-3346.	2.5	7
57	Extraction of salbutamol using co-sintered molecularly imprinted polymers as a new format of solid-phase extraction. <i>Analytical Methods</i> , 2013, 5, 6954.	2.7	7
58	Analysis of cooperative interactions in molecularly imprinted polymer nanoparticles. <i>Molecular Imprinting</i> , 2015, 3, 55-64.	1.8	7
59	Solid-phase synthesis of imprinted nanoparticles as artificial antibodies against the C-terminus of the cannabinoid CB1 receptor: exploring a viable alternative for bioanalysis. <i>Mikrochimica Acta</i> , 2021, 188, 368.	5.0	7
60	Novel assay format for proteins based on magnetic molecularly imprinted polymer nanoparticlesâ€”detection of pepsin. <i>Journal of the Chinese Advanced Materials Society</i> , 2018, 6, 341-351.	0.7	5