

Francesco Canfarotta

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,855
citations

304743

22
h-index

276875

41
g-index

43
all docs

43
docs citations

43
times ranked

1830
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-phase synthesis of molecularly imprinted nanoparticles. <i>Nature Protocols</i> , 2016, 11, 443-455.	12.0	282
2	Molecularly Imprinted Polymers for Cell Recognition. <i>Trends in Biotechnology</i> , 2020, 38, 368-387.	9.3	162
3	Specific Drug Delivery to Cancer Cells with Double-Imprinted Nanoparticles against Epidermal Growth Factor Receptor. <i>Nano Letters</i> , 2018, 18, 4641-4646.	9.1	128
4	Polymeric nanoparticles for optical sensing. <i>Biotechnology Advances</i> , 2013, 31, 1585-1599.	11.7	118
5	In Vivo Recognition of Human Vascular Endothelial Growth Factor by Molecularly Imprinted Polymers. <i>Nano Letters</i> , 2017, 17, 2307-2312.	9.1	108
6	A comparison of the performance of molecularly imprinted polymer nanoparticles for small molecule targets and antibodies in the ELISA format. <i>Scientific Reports</i> , 2016, 6, 37638.	3.3	94
7	Surface-modified multifunctional MIP nanoparticles. <i>Nanoscale</i> , 2013, 5, 3733.	5.6	79
8	Detecting and targeting senescent cells using molecularly imprinted nanoparticles. <i>Nanoscale Horizons</i> , 2019, 4, 757-768.	8.0	67
9	Biocompatibility and internalization of molecularly imprinted nanoparticles. <i>Nano Research</i> , 2016, 9, 3463-3477.	10.4	61
10	A novel thermal detection method based on molecularly imprinted nanoparticles as recognition elements. <i>Nanoscale</i> , 2018, 10, 2081-2089.	5.6	53
11	Thermal Detection of Cardiac Biomarkers Heart-Fatty Acid Binding Protein and ST2 Using a Molecularly Imprinted Nanoparticle-Based Multiplex Sensor Platform. <i>ACS Sensors</i> , 2019, 4, 2838-2845.	7.8	50
12	A novel capacitive sensor based on molecularly imprinted nanoparticles as recognition elements. <i>Biosensors and Bioelectronics</i> , 2018, 120, 108-114.	10.1	48
13	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
14	Molecularly Imprinted Polymer Nanoparticles Enable Rapid, Reliable, and Robust Point-of-Care Thermal Detection of SARS-CoV-2. <i>ACS Sensors</i> , 2022, 7, 1122-1131.	7.8	45
15	Engineered Magnetic Nanoparticles for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2014, 3, 160-175.	7.6	44
16	Does size matter? Study of performance of pseudo-ELISAs based on molecularly imprinted polymer nanoparticles prepared for analytes of different sizes. <i>Analyst</i> , The, 2016, 141, 1405-1412.	3.5	42
17	Recent advances in electrochemical sensors based on chiral and nano-sized imprinted polymers. <i>Current Opinion in Electrochemistry</i> , 2018, 7, 146-152.	4.8	41
18	Molecularly imprinted polymer nanoparticle-based assay (MINA): application for fumonisin B1 determination. <i>Analyst</i> , The, 2018, 143, 3481-3488.	3.5	35

#	ARTICLE	IF	CITATIONS
19	Synthetic Mechanism of Molecular Imprinting at the Solid Phase. <i>Macromolecules</i> , 2020, 53, 1435-1442.	4.8	34
20	Nanoplasmonic biosensor for rapid detection of multiple viral variants in human serum. <i>Sensors and Actuators B: Chemical</i> , 2022, 365, 131906.	7.8	32
21	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
22	Immobilization of Molecularly Imprinted Polymer Nanoparticles onto Surfaces Using Different Strategies: Evaluating the Influence of the Functionalized Interface on the Performance of a Thermal Assay for the Detection of the Cardiac Biomarker Troponin I. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 27868-27879.	8.0	24
23	Optimisation of the preservation conditions for molecularly imprinted polymer nanoparticles specific for trypsin. <i>Nanoscale Advances</i> , 2019, 1, 3709-3714.	4.6	21
24	Nano-molecularly imprinted polymers (nanoMIPs) as a novel approach to targeted drug delivery in nanomedicine. <i>RSC Advances</i> , 2022, 12, 3957-3968.	3.6	21
25	Biomimetic Silica Nanoparticles Prepared by a Combination of Solid-Phase Imprinting and Ostwald Ripening. <i>Scientific Reports</i> , 2017, 7, 11537.	3.3	20
26	Synthesis and Application of Ion-Imprinted Nanoparticles in Electrochemical Sensors for Copper (II) Determination. <i>ChemNanoMat</i> , 2019, 5, 754-760.	2.8	20
27	Development of a homogenous assay based on fluorescent imprinted nanoparticles for analysis of nitroaromatic compounds. <i>Nano Research</i> , 2019, 12, 3044-3050.	10.4	18
28	Replacement of Antibodies in Pseudo-ELISAs: Molecularly Imprinted Nanoparticles for Vancomycin Detection. <i>Methods in Molecular Biology</i> , 2017, 1575, 389-398.	0.9	16
29	Approaches to the Rational Design of Molecularly Imprinted Polymers Developed for the Selective Extraction or Detection of Antibiotics in Environmental and Food Samples. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100021.	1.8	15
30	Formation of target-specific binding sites in enzymes: solid-phase molecular imprinting of HRP. <i>Nanoscale</i> , 2016, 8, 11060-11066.	5.6	14
31	Carboxyl-fentanyl detection using optical fibre grating-based sensors functionalised with molecularly imprinted nanoparticles. <i>Biosensors and Bioelectronics</i> , 2021, 177, 113002.	10.1	13
32	Biocompatibility and biodistribution of surface-modified yttrium oxide nanoparticles for potential theranostic applications. <i>Environmental Science and Pollution Research</i> , 2020, 27, 19095-19107.	5.3	12
33	NanoMIP-based approach for the suppression of interference signals in electrochemical sensors. <i>Analyst</i> , 2019, 144, 7290-7295.	3.5	10
34	Probing Peptide Sequences on Their Ability to Generate Affinity Sites in Molecularly Imprinted Polymers. <i>Langmuir</i> , 2020, 36, 279-283.	3.5	10
35	Mass spectrometric detection of KRAS protein mutations using molecular imprinting. <i>Nanoscale</i> , 2021, 13, 20401-20411.	5.6	8
36	Competitive pseudo-ELISA based on molecularly imprinted nanoparticles for microcystin-LR detection in water. <i>Pure and Applied Chemistry</i> , 2019, 91, 1593-1604.	1.9	7

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37	Generation of High-Affinity Molecularly Imprinted Nanoparticles for Protein Recognition via a Solid-Phase Synthesis Protocol. <i>Methods in Molecular Biology</i> , 2020, 2073, 183-194.	0.9	7
38	Modulation of acetylcholinesterase activity using molecularly imprinted polymer nanoparticles. <i>Journal of Materials Chemistry B</i> , 2022, 10, 6732-6741.	5.8	7
39	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
40	Functionalized Core-Shell Yttrium Oxide Nanoparticles as Antioxidants Agents in Heat Stressed Rats. <i>Biological Trace Element Research</i> , 2020, 198, 189-197.	3.5	5
41	Synthesis of Monodisperse Polymeric Nano- and Microparticles and Their Application in Bioanalysis. <i>Bioanalytical Reviews</i> , 2013, , 131-154.	0.2	3
42	Molecularly Imprinted Nanoparticles Based on Long Period Grating Sensor for Detection of Fentanyl. , 2018, , .		0