

Davide Baratella

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

860
citations

17
h-index

28
g-index

43
ext. papers

961
ext. citations

6.3
avg, IF

3.89
L-index

#	Paper	IF	Citations
39	Environmental implications of one-century COPRs evolution in a single industrial site: From leaching impact to sustainable remediation of Cr polluted groundwater. <i>Chemosphere</i> , 2021 , 283, 131211	8.4	2
38	Smart synthetic maghemite nanoparticles with unique surface properties encode binding specificity toward As. <i>Science of the Total Environment</i> , 2020 , 741, 140175	10.2	5
37	Enzyme Immobilization on Maghemite Nanoparticles with Improved Catalytic Activity: An Electrochemical Study for Xanthine. <i>Materials</i> , 2020 , 13,	3.5	6
36	Electrocatalytic nanostructured ferric tannate as platform for enzyme conjugation: Electrochemical determination of phenolic compounds. <i>Bioelectrochemistry</i> , 2020 , 132, 107418	5.6	8
35	Colloidal maghemite nanoparticles with oxyhydroxide-like interface and chiroptical properties. <i>Applied Surface Science</i> , 2020 , 534, 147567	6.7	6
34	Role of carboxylic group pattern on protein surface in the recognition of iron oxide nanoparticles: A key for protein corona formation. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 1715-1728	7.9	6
33	Biotechnological applications of nanostructured hybrids of polyamine carbon quantum dots and iron oxide nanoparticles. <i>Amino Acids</i> , 2020 , 52, 301-311	3.5	6
32	Stealth Iron Oxide Nanoparticles for Organotropic Drug Targeting. <i>Biomacromolecules</i> , 2019 , 20, 1375-1384	3.4	21
31	Biologically safe colloidal suspensions of naked iron oxide nanoparticles for in situ antibiotic suppression. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 181, 102-111	6	7
30	Self-assembly of chlorin-e6 on FeO nanoparticles: Application for larvicidal activity against Aedes aegypti. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 194, 21-31	6.7	14
29	Enzyme self-assembly on naked iron oxide nanoparticles for aminoaldehyde biosensing. <i>Amino Acids</i> , 2019 , 51, 679-690	3.5	9
28	H2O2 Tolerance in Pseudomonas Fluorescens: Synergy between Pyoverdine-Iron(III) Complex and a Blue Extracellular Product Revealed by a Nanotechnology-Based Electrochemical Approach. <i>ChemElectroChem</i> , 2019 , 6, 5186-5190	4.3	3
27	H2O2 Tolerance in Pseudomonas Fluorescens: Synergy between Pyoverdine-Iron(III) Complex and a Blue Extracellular Product Revealed by a Nanotechnology-Based Electrochemical Approach. <i>ChemElectroChem</i> , 2019 , 6, 5166-5166	4.3	
26	Analysis of hard protein corona composition on selective iron oxide nanoparticles by MALDI-TOF mass spectrometry: identification and amplification of a hidden mastitis biomarker in milk proteome. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 2949-2959	4.4	35
25	Antimicrobial and magnetically removable tannic acid nanocarrier: A processing aid for Listeria monocytogenes treatment for food industry applications. <i>Food Chemistry</i> , 2018 , 267, 430-436	8.5	8
24	Endogenous and food-derived polyamines: determination by electrochemical sensing. <i>Amino Acids</i> , 2018 , 50, 1187-1203	3.5	16
23	New Perspectives on Biomedical Applications of Iron Oxide Nanoparticles. <i>Current Medicinal Chemistry</i> , 2018 , 25, 540-555	4.3	37

22	Versatile nano-platform for tailored immuno-magnetic carriers. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 7575-7589	4.4	4
21	The surface reactivity of iron oxide nanoparticles as a potential hazard for aquatic environments: A study on <i>Daphnia magna</i> adults and embryos. <i>Scientific Reports</i> , 2018 , 8, 13017	4.9	20
20	Electrostatically stabilized hybrids of carbon and maghemite nanoparticles: electrochemical study and application. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11668-11677	3.6	5
19	Sustainable production of high purity curcuminoids from <i>Curcuma longa</i> by magnetic nanoparticles: A case study in Brazil. <i>Journal of Cleaner Production</i> , 2017 , 154, 233-241	10.3	8
18	Covalently bound DNA on naked iron oxide nanoparticles: Intelligent colloidal nano-vector for cell transfection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 2802-2810	4	32
17	Colloidal Surface Active Maghemite Nanoparticles for Biologically Safe Cr(VI) Remediation: from Core-Shell Nanostructures to Pilot Plant Development. <i>Chemistry - A European Journal</i> , 2016 , 22, 14219-26	4.8	15
16	Citrinin mycotoxin recognition and removal by naked magnetic nanoparticles. <i>Food Chemistry</i> , 2016 , 203, 505-512	8.5	44
15	Protein corona as a proteome fingerprint: The example of hidden biomarkers for cow mastitis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 140, 40-49	6	33
14	Alkaline Water and Longevity: A Murine Study. <i>Evidence-based Complementary and Alternative Medicine</i> , 2016 , 2016, 3084126	2.3	8
13	Ternary Hybrid Fe ₂ O ₃ /Cr(VI)/Amine Oxidase Nanostructure for Electrochemical Sensing: Application for Polyamine Detection in Tumor Tissue. <i>Chemistry - A European Journal</i> , 2016 , 22, 6846-52	4.8	18
12	Enlightening mineral iron sensing in <i>Pseudomonas fluorescens</i> by surface active maghemite nanoparticles: Involvement of the OprF porin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 2202-10	4	10
11	Electrocatalytic Nanostructured Ferric Tannates: Characterization and Application of a Polyphenol Nanosensor. <i>ChemPhysChem</i> , 2016 , 17, 3196-3203	3.2	13
10	Magnetic purification of curcumin from <i>Curcuma longa</i> rhizome by novel naked maghemite nanoparticles. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 912-20	5.7	19
9	Triggering Mechanism for DNA Electrical Conductivity: Reversible Electron Transfer between DNA and Iron Oxide Nanoparticles. <i>Advanced Functional Materials</i> , 2015 , 25, 1822-1831	15.6	30
8	DNA Conductivity: Triggering Mechanism for DNA Electrical Conductivity: Reversible Electron Transfer between DNA and Iron Oxide Nanoparticles (Adv. Funct. Mater. 12/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1821-1821	15.6	
7	Nanocrystalline Iron Oxides, Composites, and Related Materials as a Platform for Electrochemical, Magnetic, and Chemical Biosensors. <i>Chemistry of Materials</i> , 2014 , 26, 6653-6673	9.6	127
6	A magnetically drivable nanovehicle for curcumin with antioxidant capacity and MRI relaxation properties. <i>Chemistry - A European Journal</i> , 2014 , 20, 11913-20	4.8	40
5	Core-shell hybrid nanomaterial based on prussian blue and surface active maghemite nanoparticles as stable electrocatalyst. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 159-65	11.8	42

4	Magnetic Nanoparticles with Covalently Bound Self-Assembled Protein Corona for Advanced Biomedical Applications. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20320-20331	3.8	53
3	A glucose biosensor based on surface active maghemite nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013 , 45, 13-8	11.8	60
2	Electrochemical determination of hydrogen peroxide production by isolated mitochondria: A novel nanocomposite carbon/maghemite nanoparticle electrode. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 315-322	8.5	47
1	Avidin functionalized maghemite nanoparticles and their application for recombinant human biotinyl-SERCA purification. <i>Langmuir</i> , 2012 , 28, 15392-401	4	42