

# Davide Baratella

## List of Publications by Year in descending order

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39  
papers

1,053  
citations

430442

18  
h-index

414034

32  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1465  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.2	140
2	A glucose biosensor based on surface active maghemite nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013, 45, 13-18.	5.3	63
3	Citrinin mycotoxin recognition and removal by naked magnetic nanoparticles. <i>Food Chemistry</i> , 2016, 203, 505-512.	4.2	62
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.	1.5	60
5	New Perspectives on Biomedical Applications of Iron Oxide Nanoparticles. <i>Current Medicinal Chemistry</i> , 2018, 25, 540-555.	1.2	52
6	Avidin Functionalized Maghemite Nanoparticles and Their Application for Recombinant Human Biotinyl-SERCA Purification. <i>Langmuir</i> , 2012, 28, 15392-15401.	1.6	50
7	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.	4.0	50
8	A Magnetically Drivable Nanovehicle for Curcumin with Antioxidant Capacity and MRI Relaxation Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 11913-11920.	1.7	48
9	Core-shell hybrid nanomaterial based on prussian blue and surface active maghemite nanoparticles as stable electrocatalyst. <i>Biosensors and Bioelectronics</i> , 2014, 52, 159-165.	5.3	46
10	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.	1.9	42
11	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.	1.1	38
12	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.	2.5	37
13	Triggering Mechanism for DNA Electrical Conductivity: Reversible Electron Transfer between DNA and Iron Oxide Nanoparticles. <i>Advanced Functional Materials</i> , 2015, 25, 1822-1831.	7.8	36
14	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.	1.6	29
15	Stealth Iron Oxide Nanoparticles for Organotropic Drug Targeting. <i>Biomacromolecules</i> , 2019, 20, 1375-1384.	2.6	28
16	Ternary Hybrid Fe <sub>2</sub> O <sub>3</sub> /Cr <sup>VI</sup> /Amine Oxidase Nanostructure for Electrochemical Sensing: Application for Polyamine Detection in Tumor Tissue. <i>Chemistry - A European Journal</i> , 2016, 22, 6846-6852.	1.7	24
17	Endogenous and food-derived polyamines: determination by electrochemical sensing. <i>Amino Acids</i> , 2018, 50, 1187-1203.	1.2	22
18	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, 912-920.	2.4	21

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19	Self-assembly of chlorin-e6 on $\text{Fe}_3\text{O}_4$ nanoparticles: Application for larvicidal activity against <i>Aedes aegypti</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 194, 21-31.	1.7	20
20	Antimicrobial and magnetically removable tannic acid nanocarrier: A processing aid for <i>Listeria monocytogenes</i> treatment for food industry applications. <i>Food Chemistry</i> , 2018, 267, 430-436.	4.2	19
21	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.	3.6	17
22	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, 14219-14226.	1.7	16
23	Electrocatalytic Nanostructured Ferric Tannates: Characterization and Application of a Polyphenol Nanosensor. <i>ChemPhysChem</i> , 2016, 17, 3196-3203.	1.0	15
24	Electrocatalytic nanostructured ferric tannate as platform for enzyme conjugation: Electrochemical determination of phenolic compounds. <i>Bioelectrochemistry</i> , 2020, 132, 107418.	2.4	13
25	Alkaline Water and Longevity: A Murine Study. <i>Evidence-based Complementary and Alternative Medicine</i> , 2016, 2016, 1-6.	0.5	12
26	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, 2202-2210.	1.1	12
27	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.	2.5	10
28	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.	4.6	9
29	Enzyme self-assembly on naked iron oxide nanoparticles for aminoaldehyde biosensing. <i>Amino Acids</i> , 2019, 51, 679-690.	1.2	9
30	Biotechnological applications of nanostructured hybrids of polyamine carbon quantum dots and iron oxide nanoparticles. <i>Amino Acids</i> , 2020, 52, 301-311.	1.2	9
31	Colloidal maghemite nanoparticles with oxyhydroxide-like interface and chiroptical properties. <i>Applied Surface Science</i> , 2020, 534, 147567.	3.1	9
32	Smart synthetic maghemite nanoparticles with unique surface properties encode binding specificity toward As(III). <i>Science of the Total Environment</i> , 2020, 741, 140175.	3.9	8
33	Versatile nano-platform for tailored immuno-magnetic carriers. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7575-7589.	1.9	7
34	Enzyme Immobilization on Maghemite Nanoparticles with Improved Catalytic Activity: An Electrochemical Study for Xanthine. <i>Materials</i> , 2020, 13, 1776.	1.3	6
35	Electrostatically stabilized hybrids of carbon and maghemite nanoparticles: electrochemical study and application. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11668-11677.	1.3	5
36	Environmental implications of one-century COPRs evolution in a single industrial site: From leaching impact to sustainable remediation of Cr(VI) polluted groundwater. <i>Chemosphere</i> , 2021, 283, 131211.	4.2	5

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37	H <sub>2</sub> O <sub>2</sub> Tolerance in <i>Pseudomonas Fluorescens</i> : 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.	1.7	3
38	DNA Conductivity: Triggering Mechanism for DNA Electrical Conductivity: Reversible Electron Transfer between DNA and Iron Oxide Nanoparticles ( <i>Adv. Funct. Mater.</i> 12/2015). <i>Advanced Functional Materials</i> , 2015, 25, 1821-1821.	7.8	0
39	H <sub>2</sub> O <sub>2</sub> Tolerance in <i>Pseudomonas Fluorescens</i> : 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.	1.7	0