

# Hojatollah Vali

## List of Publications by Citations

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195  
papers

10,689  
citations

57  
h-index

96  
g-index

205  
ext. papers

12,010  
ext. citations

7.1  
avg, IF

6.09  
L-index

#	Paper	IF	Citations
195	Search for past life on Mars: possible relic biogenic activity in martian meteorite ALH84001. <i>Science</i> , <b>1996</b> , 273, 924-30	33.3	1366
194	Occurrence of magnetic bacteria in soil. <i>Nature</i> , <b>1990</b> , 343, 161-3	50.4	300
193	Fossil bacterial magnetite in deep-sea sediments from the South Atlantic Ocean. <i>Nature</i> , <b>1986</b> , 320, 611-614	51.4	297
192	Magnetosome vesicles are present before magnetite formation, and MamA is required for their activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 3839-44	11.5	268
191	Comprehensive genetic dissection of the magnetosome gene island reveals the step-wise assembly of a prokaryotic organelle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 5593-8	11.5	248
190	Elongated prismatic magnetite crystals in ALH84001 carbonate globules: potential Martian magnetofossils. <i>Geochimica Et Cosmochimica Acta</i> , <b>2000</b> , 64, 4049-81	5.5	245
189	A low temperature transfer of ALH84001 from Mars to Earth. <i>Science</i> , <b>2000</b> , 290, 791-5	33.3	180
188	Spherical Assemblies of Semiconductor Nanoparticles in Water-Soluble Block Copolymer Aggregates. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 1021-1028	9.6	171
187	Cellular and molecular interactions between MC3T3-E1 pre-osteoblasts and nanostructured titanium produced by high-pressure torsion. <i>Biomaterials</i> , <b>2007</b> , 28, 3887-95	15.6	162
186	Extracellular respiration of dimethyl sulfoxide by <i>Shewanella oneidensis</i> strain MR-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 4669-74	11.5	162
185	mTOR Controls Mitochondrial Dynamics and Cell Survival via MTFP1. <i>Molecular Cell</i> , <b>2017</b> , 67, 922-935.e5	17.6	156
184	Magnetotactic bacteria and their magnetofossils in sediments. <i>Earth and Planetary Science Letters</i> , <b>1987</b> , 86, 389-400	5.3	142
183	Cellulose Nanocrystals as Chiral Inducers: Enantioselective Catalysis and Transmission Electron Microscopy 3D Characterization. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 6124-7	16.4	141
182	A highly water-dispersible/magnetically separable palladium catalyst based on a Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> anchored TEG-imidazolium ionic liquid for the Suzuki-Miyaura coupling reaction in water. <i>Green Chemistry</i> , <b>2014</b> , 16, 2587	10	138
181	Records of an ancient Martian magnetic field in ALH84001. <i>Earth and Planetary Science Letters</i> , <b>2002</b> , 201, 449-463	5.3	137
180	Truncated hexa-octahedral magnetite crystals in ALH84001: presumptive biosignatures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 2164-9	11.5	137
179	Cell "vision": complementary factor of protein corona in nanotoxicology. <i>Nanoscale</i> , <b>2012</b> , 4, 5461-8	7.7	133

178	Cadmium sulphide quantum dots in morphologically tunable triblock copolymer aggregates. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 10063-9	16.4	120
177	Metal reduction and iron biomineralization by a psychrotolerant Fe(III)-reducing bacterium, <i>Shewanella</i> sp. strain PV-4. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 3236-44	4.8	115
176	Influence of the physiochemical properties of superparamagnetic iron oxide nanoparticles on amyloid $\beta$ protein fibrillation in solution. <i>ACS Chemical Neuroscience</i> , <b>2013</b> , 4, 475-85	5.7	113
175	Paleomagnetic evidence of a low-temperature origin of carbonate in the Martian meteorite ALH84001. <i>Science</i> , <b>1997</b> , 275, 1629-33	33.3	110
174	Nanostructuring of a Titanium Material by High-Pressure Torsion Improves Pre-Osteoblast Attachment. <i>Advanced Materials</i> , <b>2007</b> , 19, 1069-1073	24	106
173	Value-adding to grape waste: Green synthesis of gold nanoparticles. <i>Journal of Food Engineering</i> , <b>2014</b> , 142, 210-220	6	103
172	Magnetofossils from ancient Mars: a robust biosignature in the martian meteorite ALH84001. <i>Applied and Environmental Microbiology</i> , <b>2002</b> , 68, 3663-72	4.8	101
171	Chiral acidic amino acids induce chiral hierarchical structure in calcium carbonate. <i>Nature Communications</i> , <b>2017</b> , 8, 15066	17.4	99
170	Irreversible changes in protein conformation due to interaction with superparamagnetic iron oxide nanoparticles. <i>Nanoscale</i> , <b>2011</b> , 3, 1127-38	7.7	95
169	Biogeochemical and environmental factors in Fe biomineralization: magnetite and siderite formation. <i>Clays and Clay Minerals</i> , <b>2003</b> , 51, 83-95	2.1	94
168	Quantitative analysis of macrophage apoptosis vs. necrosis induced by cobalt and chromium ions in vitro. <i>Biomaterials</i> , <b>2005</b> , 26, 2441-53	15.6	93
167	Formation of tabular single-domain magnetite induced by <i>Geobacter metallireducens</i> GS-15. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 16121-6	11.5	86
166	Expanding behaviour, structural disorder, regular and random irregular interstratification of 2:1 layer-silicates studied by high-resolution images of transmission electron microscopy. <i>Clay Minerals</i> , <b>1986</b> , 21, 827-859	1.3	85
165	Accelerated Growth Rate and Increased Drought Stress Resilience of the Model Grass <i>Brachypodium distachyon</i> Colonized by <i>Bacillus subtilis</i> B26. <i>PLoS ONE</i> , <b>2015</b> , 10, e0130456	3.7	83
164	Formation of single-domain magnetite by a thermophilic bacterium. <i>American Mineralogist</i> , <b>1998</b> , 83, 1409-1418	2.9	83
163	Multiphysics Flow Modeling and in Vitro Toxicity of Iron Oxide Nanoparticles Coated with Poly(vinyl alcohol). <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 2322-2331	3.8	80
162	HO-1-mediated macroautophagy: a mechanism for unregulated iron deposition in aging and degenerating neural tissues. <i>Journal of Neurochemistry</i> , <b>2009</b> , 109, 776-91	6	79
161	Magnetofossil dissolution in a palaeomagnetically unstable deep-sea sediment. <i>Nature</i> , <b>1989</b> , 339, 203-206	30.4	79

160	Synthesis and characterization of alkyl-imidazolium-based periodic mesoporous organosilicas: a versatile host for the immobilization of perruthenate (RuO <sub>4</sub> <sup>-</sup> ) in the aerobic oxidation of alcohols. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 13520-30	4.8	78
159	Structural characterization of a rhamnolipid-type biosurfactant produced by <i>Pseudomonas aeruginosa</i> MR01: enhancement of di-rhamnolipid proportion using gamma irradiation. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2010</b> , 81, 397-405	6	78
158	In vitro fibrillogenesis of tropocollagen type III in collagen type I affects its relative fibrillar topology and mechanics. <i>Scientific Reports</i> , <b>2017</b> , 7, 1392	4.9	76
157	Reduction of Iron Oxides Enhanced by a Sulfate-Reducing Bacterium and Biogenic H <sub>2</sub> S. <i>Geomicrobiology Journal</i> , <b>2006</b> , 23, 103-117	2.5	76
156	Smooth muscle cells deficient in osteopontin have enhanced susceptibility to calcification in vitro. <i>Cardiovascular Research</i> , <b>2005</b> , 66, 324-33	9.9	75
155	Are there naturally occurring pleomorphic bacteria in the blood of healthy humans?. <i>Journal of Clinical Microbiology</i> , <b>2002</b> , 40, 4771-5	9.7	75
154	Palladium Nanoparticles Supported in the Nanospaces of Imidazolium-Based Bifunctional PMOs: The Role of Plugs in Selectivity Changeover in Aerobic Oxidation of Alcohols. <i>ACS Catalysis</i> , <b>2015</b> , 5, 4189-4200	13.1	74
153	Iron reduction and alteration of nontronite NAu-2 by a sulfate-reducing bacterium. <i>Geochimica Et Cosmochimica Acta</i> , <b>2004</b> , 68, 3251-3260	5.5	74
152	Microbial preparation of metal-substituted magnetite nanoparticles. <i>Journal of Microbiological Methods</i> , <b>2007</b> , 70, 150-8	2.8	71
151	An Appalachian Amazon? Magnetofossil evidence for the development of a tropical river-like system in the mid-Atlantic United States during the Paleocene-Eocene thermal maximum. <i>Paleoceanography</i> , <b>2009</b> , 24,		69
150	Evidence of biogenic greigite (ferrimagnetic Fe <sub>3</sub> S <sub>4</sub> ) in soil. <i>European Journal of Soil Science</i> , <b>1994</b> , 45, 97-103	3.4	69
149	Enhanced phenol degradation by <i>Pseudomonas</i> sp. SA01: gaining insight into the novel single and hybrid immobilizations. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 175, 284-92	12.8	68
148	<i>Desulfovibrio magneticus</i> RS-1 contains an iron- and phosphorus-rich organelle distinct from its bullet-shaped magnetosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 12263-8	11.5	66
147	Effect of Cell Sex on Uptake of Nanoparticles: The Overlooked Factor at the Nanobio Interface. <i>ACS Nano</i> , <b>2018</b> , 12, 2253-2266	16.7	65
146	Selective oxidation of alcohols with hydrogen peroxide catalyzed by tungstate ions (WO <sub>4</sub> <sup>=</sup> ) supported on periodic mesoporous organosilica with imidazolium frameworks (PMO-IL). <i>Tetrahedron</i> , <b>2014</b> , 70, 6114-6119	2.4	65
145	Ultrastructure and flow behavior of colloidal smectite dispersions. <i>Journal of Colloid and Interface Science</i> , <b>1988</b> , 126, 278-291	9.3	65
144	The HtrA/DegP family protease MamE is a bifunctional protein with roles in magnetosome protein localization and magnetite biomineralization. <i>Molecular Microbiology</i> , <b>2011</b> , 80, 1075-87	4.1	64
143	Magnetofossil spike during the Paleocene-Eocene thermal maximum: Ferromagnetic resonance, rock magnetic, and electron microscopy evidence from Ancora, New Jersey, United States. <i>Paleoceanography</i> , <b>2007</b> , 22, n/a-n/a		63

142	Silica-encapsulated magnetic nanoparticles: enzyme immobilization and cytotoxic study. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 50, 1063-9	7.9	60
141	Observation of shrinkage cracks in ocean floor titanomagnetites. <i>Physics of the Earth and Planetary Interiors</i> , <b>1987</b> , 46, 197-205	2.3	60
140	Mn and Zn incorporation into calcite as a function of chloride aqueous concentration. <i>Geochimica Et Cosmochimica Acta</i> , <b>2000</b> , 64, 2417-2430	5.5	59
139	Elastin haploinsufficiency impedes the progression of arterial calcification in MGP-deficient mice. <i>Journal of Bone and Mineral Research</i> , <b>2014</b> , 29, 327-37	6.3	58
138	Gigantism in unique biogenic magnetite at the Paleocene-Eocene Thermal Maximum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 17648-53	11.5	56
137	Secondary Mineral Genesis from Chlorite and Serpentine in an Ultramafic Soil Toposequence. <i>Soil Science Society of America Journal</i> , <b>2003</b> , 67, 1309-1317	2.5	56
136	Peroxisome division in the yeast <i>Yarrowia lipolytica</i> is regulated by a signal from inside the peroxisome. <i>Journal of Cell Biology</i> , <b>2003</b> , 162, 1255-66	7.3	55
135	Modulation of calcium oxalate dihydrate growth by selective crystal-face binding of phosphorylated osteopontin and polyaspartate peptide showing occlusion by sectoral (compositional) zoning. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 23491-501	5.4	53
134	Macromitophagy is a longevity assurance process that in chronologically aging yeast limited in calorie supply sustains functional mitochondria and maintains cellular lipid homeostasis. <i>Aging</i> , <b>2013</b> , 5, 234-69	5.6	53
133	Two-Dimensional Magnesium Phosphate Nanosheets Form Highly Thixotropic Gels That Up-Regulate Bone Formation. <i>Nano Letters</i> , <b>2016</b> , 16, 4779-87	11.5	51
132	Thermal stability and annealing behaviour of ultrafine grained commercially pure titanium. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 532, 58-63	5.3	51
131	Intracellular precipitation of hydroxyapatite mineral and implications for pathologic calcification. <i>Journal of Structural Biology</i> , <b>2008</b> , 162, 468-79	3.4	51
130	Nanoforms: a new type of protein-associated mineralization. <i>Geochimica Et Cosmochimica Acta</i> , <b>2001</b> , 65, 63-74	5.5	51
129	A nano-fibrillated mesoporous carbon as an effective support for palladium nanoparticles in the aerobic oxidation of alcohols "on pure water". <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 8634-40	4.8	50
128	Eco-friendly electrocatalytic oxidation of alcohols on a novel electro generated TEMPO-functionalized MCM-41 modified electrode. <i>Green Chemistry</i> , <b>2015</b> , 17, 991-1000	10	49
127	Schizophrenia-like features in transgenic mice overexpressing human HO-1 in the astrocytic compartment. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 10841-53	6.6	49
126	Annexin1 regulates DC efferocytosis and cross-presentation during Mycobacterium tuberculosis infection. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 752-68	15.9	49
125	Paleointensity of the ancient Martian magnetic field. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	48

124	Novel Ordered Mesoporous Carbon Based Sulfonic Acid as an Efficient Catalyst in the Selective Dehydration of Fructose into 5-HMF: the Role of Solvent and Surface Chemistry. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 19050-9	9.5	47
123	Nanostructure, osteopontin, and mechanical properties of calcitic avian eggshell. <i>Science Advances</i> , <b>2018</b> , 4, eaar3219	14.3	47
122	Cytotoxicity and Cell Cycle Effects of Bare and Poly(vinyl alcohol)-Coated Iron Oxide Nanoparticles in Mouse Fibroblasts. <i>Advanced Engineering Materials</i> , <b>2009</b> , 11, B243-B250	3.5	47
121	14-3-3 protects against stress-induced apoptosis. <i>Cell Death and Disease</i> , <b>2012</b> , 3, e348	9.8	47
120	Regulation of enamel hardness by its crystallographic dimensions. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 3400-10	10.8	46
119	Tungstate Supported on Periodic Mesoporous Organosilica with Imidazolium Framework as an Efficient and Recyclable Catalyst for the Selective Oxidation of Sulfides. <i>ChemPlusChem</i> , <b>2015</b> , 80, 990-999	9.8	45
118	A tissue-mimetic nano-fibrillar hybrid injectable hydrogel for potential soft tissue engineering applications. <i>Scientific Reports</i> , <b>2018</b> , 8, 1047	4.9	45
117	The significance of crystallographic texture of titanium alloy substrates on pre-osteoblast responses. <i>Biomaterials</i> , <b>2006</b> , 27, 3532-9	15.6	43
116	Trace elements can influence the physical properties of tooth enamel. <i>SpringerPlus</i> , <b>2013</b> , 2, 499		42
115	Cyanobacterial diversity and activity in modern conical microbialites. <i>Geobiology</i> , <b>2012</b> , 10, 384-401	4.3	42
114	A genetic strategy for probing the functional diversity of magnetosome formation. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1004811	6	41
113	Palladium on Ionic Liquid Derived Nanofibrillated Mesoporous Carbon: A Recyclable Catalyst for the Ullmann Homocoupling Reactions of Aryl Halides in Water. <i>ChemCatChem</i> , <b>2014</b> , 6, 745-748	5.2	38
112	Macromitophagy, neutral lipids synthesis, and peroxisomal fatty acid oxidation protect yeast from "liponecrosis", a previously unknown form of programmed cell death. <i>Cell Cycle</i> , <b>2014</b> , 13, 138-47	4.7	38
111	Unregulated brain iron deposition in transgenic mice over-expressing HMOX1 in the astrocytic compartment. <i>Journal of Neurochemistry</i> , <b>2012</b> , 123, 325-36	6	38
110	Ultrastructural Characterization of Turnip Mosaic Virus-Induced Cellular Rearrangements Reveals Membrane-Bound Viral Particles Accumulating in Vacuoles. <i>Journal of Virology</i> , <b>2015</b> , 89, 12441-56	6.6	37
109	A Highly Water-Dispersible/Magnetically Separable Palladium Catalyst: Selective Transfer Hydrogenation or Direct Reductive N-Formylation of Nitroarenes in Water. <i>ChemPlusChem</i> , <b>2015</b> , 80, 1750-1759	2.8	37
108	Eutectic nucleation in hypoeutectic Al-Si alloys. <i>Materials Characterization</i> , <b>2008</b> , 59, 1466-1473	3.9	37
107	Hydrothermal alteration of olivine in a flow-through autoclave: Nucleation and growth of serpentine phases. <i>American Mineralogist</i> , <b>2002</b> , 87, 1699-1709	2.9	37

106	Transferrin receptor 1 controls systemic iron homeostasis by fine-tuning hepcidin expression to hepatocellular iron load. <i>Blood</i> , <b>2019</b> , 133, 344-355	2.2	37
105	Nickel and lead biosorption by <i>Curtobacterium</i> sp. FM01, an indigenous bacterium isolated from farmland soils of northeast Iran. <i>Journal of Environmental Chemical Engineering</i> , <b>2016</b> , 4, 950-957	6.8	36
104	Anchorage of vinculin to lipid membranes influences cell mechanical properties. <i>Biophysical Journal</i> , <b>2009</b> , 97, 3105-12	2.9	36
103	Ultrasmall Platinum Nanoparticles Supported Inside the Nanospaces of Periodic Mesoporous Organosilica with an Imidazolium Network: An Efficient Catalyst for the Aerobic Oxidation of Unactivated Alcohols in Water. <i>ChemCatChem</i> , <b>2016</b> , 8, 906-910	5.2	36
102	Au-Pd bimetallic nanoparticles supported on a high nitrogen-rich ordered mesoporous carbon as an efficient catalyst for room temperature Ullmann coupling of aryl chlorides in aqueous media. <i>Chemical Communications</i> , <b>2018</b> , 54, 7155-7158	5.8	35
101	Nanoscale characterization of the biomolecular corona by cryo-electron microscopy, cryo-electron tomography, and image simulation. <i>Nature Communications</i> , <b>2021</b> , 12, 573	17.4	35
100	Amorphous TiO <sub>2</sub> coated into periodic mesoporous organosilicate channels as a new binary photocatalyst for regeneration of carbonyl compounds from oximes under sunlight irradiation. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 416-9	3.9	32
99	Identification of vermiculite by transmission electron microscopy and X-ray diffraction. <i>Clay Minerals</i> , <b>1992</b> , 27, 185-192	1.3	32
98	A novel iron- and copper-binding protein in the Lyme disease spirochaete. <i>Molecular Microbiology</i> , <b>2012</b> , 86, 1441-51	4.1	30
97	Magnetic Bacteria in Lake Sediments <b>1989</b> , 231-241		30
96	Improving the Selectivity toward Three-Component Biginelli versus Hantzsch Reactions by Controlling the Catalyst Hydrophobic/Hydrophilic Surface Balance. <i>ChemCatChem</i> , <b>2014</b> , 6, 212-219	5.2	29
95	Sensing of Alzheimer's Disease and Multiple Sclerosis Using Nano-Bio Interfaces. <i>Journal of Alzheimer's Disease</i> , <b>2017</b> , 59, 1187-1202	4.3	29
94	The response of fibrinogen, platelets, endothelial and smooth muscle cells to an electrochemically modified SS316LS surface: towards the enhanced biocompatibility of coronary stents. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 695-701	10.8	29
93	Observations of Magnetosome Organization, Surface Structure, and Iron Biomineralization of Undescribed Magnetic Bacteria: Evolutionary Speculations <b>1991</b> , 97-115		29
92	Polyethylene glycol and octa-arginine dual-functionalized nanographene oxide: an optimization for efficient nucleic acid delivery. <i>Biomaterials Science</i> , <b>2018</b> , 6, 1636-1650	7.4	28
91	Chiral switching in biomineral suprastructures induced by homochiral l-amino acid. <i>Science Advances</i> , <b>2018</b> , 4, eaas9819	14.3	28
90	Letter. Crystal morphology of MV-1 magnetite. <i>American Mineralogist</i> , <b>2002</b> , 87, 1727-1730	2.9	28
89	TEM study of Pt-C replicas of calcite overgrowths precipitated from electrolyte solutions. <i>Geochimica Et Cosmochimica Acta</i> , <b>1996</b> , 60, 4689-4699	5.5	28

88	A high-fat diet modulates iron metabolism but does not promote liver fibrosis in hemochromatotic H <sub>2</sub> O <sub>2</sub> mice. <i>American Journal of Physiology - Renal Physiology</i> , <b>2015</b> , 308, G251-61	5.1	27
87	Calcium carbonate precipitation by strain <i>Bacillus licheniformis</i> AK01, newly isolated from loamy soil: a promising alternative for sealing cement-based materials. <i>Journal of Basic Microbiology</i> , <b>2015</b> , 55, 105-11	2.7	27
86	The Biological Oxidant and Life Detection (BOLD) mission: A proposal for a mission to Mars. <i>Planetary and Space Science</i> , <b>2012</b> , 67, 57-69	2	26
85	Electrochemical performance of a novel ionic liquid derived mesoporous carbon. <i>Chemical Communications</i> , <b>2012</b> , 48, 2776-8	5.8	26
84	Effect of rhamnolipid biosurfactants on performance of coal and mineral flotation. <i>International Biodeterioration and Biodegradation</i> , <b>2011</b> , 65, 1238-1243	4.8	26
83	Psychrophilic $\alpha$ -amylase from <i>Aeromonas veronii</i> NS07 isolated from farm soils. <i>Process Biochemistry</i> , <b>2012</b> , 47, 1381-1387	4.8	25
82	Investigation of the Viability, Adhesion, and Migration of Human Fibroblasts in a Hyaluronic Acid/Gelatin Microgel-Reinforced Composite Hydrogel for Vocal Fold Tissue Regeneration. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 255-65	10.1	25
81	Synergistic catalysis within TEMPO-functionalized periodic mesoporous organosilica with bridge imidazolium groups in the aerobic oxidation of alcohols. <i>RSC Advances</i> , <b>2016</b> , 6, 63717-63723	3.7	23
80	High-performance supercapacitors based on an ionic liquid-derived nanofibrillated mesoporous carbon. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 2419-2424	2.6	23
79	On the importance of crystallographic texture in the biocompatibility of titanium based substrate. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 3631-8	5.4	23
78	Reaction-diffusion model of nutrient uptake in a biofilm: theory and experiment. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 289, 90-5	2.3	23
77	Hydroquinone functionalized oriented MCM-41 mesochannels at the electrode surface. <i>Electrochimica Acta</i> , <b>2013</b> , 94, 198-205	6.7	22
76	Sex as an important factor in nanomedicine. <i>Nature Communications</i> , <b>2021</b> , 12, 2984	17.4	22
75	Sulfonic acid-functionalized periodic mesoporous organosilicas in esterification and selective acylation reactions. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 3624-3631	5.5	21
74	C-terminal amidation of an osteocalcin-derived peptide promotes hydroxyapatite crystallization. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 7885-7893	5.4	21
73	Cellular and molecular mechanisms of abnormal calcification following ischemia-reperfusion injury in human liver transplantation. <i>Modern Pathology</i> , <b>2007</b> , 20, 357-66	9.8	21
72	Nanomaterials for bone tissue regeneration: updates and future perspectives. <i>Nanomedicine</i> , <b>2019</b> , 14, 2987-3006	5.6	20
71	Control of plugging in bifunctional periodic mesoporous organosilica with imidazolium framework (BFPMO) via stepwise addition of silica precursors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6575-6585	13	19



70	Expression, sorting, and segregation of Golgi proteins during germ cell differentiation in the testis. <i>Molecular Biology of the Cell</i> , <b>2015</b> , 26, 4015-32	3.5	19
69	Contribution of osteocalcin-mimetic peptide enhances osteogenic activity and extracellular matrix mineralization of human osteoblast-like cells. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 173, 662-671	6	19
68	Engineered substrates with imprinted cell-like topographies induce direct differentiation of adipose-derived mesenchymal stem cells into Schwann cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , <b>2019</b> , 47, 1022-1035	6.1	18
67	Biocorrosion and biocompatibility of ZrCuBeAl bulk metallic glasses. <i>Surface and Interface Analysis</i> , <b>2013</b> , 45, 1714-1720	1.5	18
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