

Martin Saunders

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.

221
papers

6,795
citations

43
h-index

73
g-index

228
ext. papers

7,732
ext. citations

6.3
avg, IF

5.9
L-index

#	Paper	IF	Citations
221	Three-dimensional nitrogen-doped graphene oxide beads for catalytic degradation of aqueous pollutants. <i>Chemical Engineering Journal</i> , 2022 , 446, 137042	14.7	0
220	Formulation of nano-graphene doped with nano silver modified dentin bonding agents with enhanced interfacial stability and antibiofilm properties.. <i>Dental Materials</i> , 2021 , 38, 347-347	5.7	2
219	Silanization of nanographene platelets improves interaction with the dentin bonding resin matrix and enhances interfacial bond integrity to dentin. <i>Biomaterials Science</i> , 2021 , 9, 8335-8346	7.4	0
218	Enhanced Detection of Desmoplasia by Targeted Delivery of Iron Oxide Nanoparticles to the Tumour-Specific Extracellular Matrix. <i>Pharmaceutics</i> , 2021 , 13,	6.4	1
217	Single Atom Catalysts: Designed Iron Single Atom Catalysts for Highly Efficient Oxygen Reduction Reaction in Alkaline and Acid Media (Adv. Mater. Interfaces 8/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170044	4.6	
216	Dubiofossils from a Mars-analogue subsurface palaeoenvironment: The limits of biogenicity criteria. <i>Geobiology</i> , 2021 , 19, 473-488	4.3	4
215	Poly(2-hydroxyethyl methacrylate) Hydrogels Doped with Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5577-5589	5.6	1
214	High-Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. <i>Small</i> , 2021 , 17, e2101573	11	44
213	A possible billion-year-old holozoan with differentiated multicellularity. <i>Current Biology</i> , 2021 , 31, 2658-2665.e2	26.5	2
212	Nitrogen under Super-Reducing Conditions: Ti Oxynitride Melts in Xenolithic Corundum Aggregates from Mt Carmel (N. Israel). <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 780	2.4	2
211	Poly(2-hydroxyethyl methacrylate) hydrogels doped with copper nanoparticles. <i>Journal of Nanoparticle Research</i> , 2021 , 23, 1	2.3	
210	Authigenic anatase within 1 billion-year-old cells. <i>Geobiology</i> , 2021 , 19, 3-17	4.3	1
209	Designed Iron Single Atom Catalysts for Highly Efficient Oxygen Reduction Reaction in Alkaline and Acid Media. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001788	4.6	5
208	A comparative study of surface segregation and interface of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.1} BO _{3-δ} electrode on GDC and YSZ electrolytes of solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 2606-2616	6.7	13
207	Ti in corundum traces crystal growth in a highly reduced magma. <i>Scientific Reports</i> , 2021 , 11, 2439	4.9	2
206	Cr ₂ O ₃ in corundum: Ultrahigh contents under reducing conditions. <i>American Mineralogist</i> , 2021 , 106, 1420-1437	2.9	3
205	Effects of hydrogen absorption on magnetism in Ni ₈₀ Fe ₂₀ /Y/Pd trilayers. <i>Physical Review B</i> , 2021 , 104,	3.3	1

204	Ambient energy dispersion and long-term stabilisation of large graphene sheets from graphite using a surface energy matched ionic liquid <i>Journal of Ionic Liquids</i> , 2021 , 1, 100001		1
203	Pathways of microfossil mineralisation by hematite in the 1878 Ma Gunflint Formation. <i>Chemical Geology</i> , 2021 , 581, 120419	4.2	1
202	Parageneses of TiB ₂ in corundum xenoliths from Mt. Carmel, Israel: Siderophile behavior of boron under reducing conditions. <i>American Mineralogist</i> , 2020 , 105, 1609-1621	2.9	8
201	Formation of micro-spherulitic barite in association with organic matter within sulfidized stromatolites of the 3.48 billion-year-old Dresser Formation, Pilbara Craton. <i>Geobiology</i> , 2020 , 18, 415-425	4.3	7
200	Spherulitic microbialites from modern hypersaline lakes, Rottneest Island, Western Australia. <i>Geobiology</i> , 2020 , 18, 725-741	4.3	6
199	Dominant Polar Surfaces of Colloidal II-VI Wurtzite Semiconductor Nanocrystals Enabled by Cation Exchange. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4990-4997	6.4	4
198	Deconstructing Earth's oldest ichnofossil record from the Pilbara Craton, West Australia: Implications for seeking life in the Archean subseafloor. <i>Geobiology</i> , 2020 , 18, 525-543	4.3	2
197	Activation-free supercapacitor electrode based on surface-modified Sr ₂ CoMo _{1-x} Ni _x O _{6-δ} perovskite. <i>Chemical Engineering Journal</i> , 2020 , 390, 124645	14.7	15
196	Poly(2-Hydroxyethyl Methacrylate) Sponges Doped with Ag Nanoparticles as Antibacterial Agents. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1630-1639	5.6	11
195	Controlled One-pot Synthesis of Nickel Single Atoms Embedded in Carbon Nanotube and Graphene Supports with High Loading. <i>ChemNanoMat</i> , 2020 , 6, 1063-1074	3.5	6
194	Dendronised Polymers as Templates for In Situ Quantum Dot Synthesis. <i>Australian Journal of Chemistry</i> , 2020 , 73, 658	1.2	
193	A Universal Seeding Strategy to Synthesize Single Atom Catalysts on 2D Materials for Electrocatalytic Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1906157	15.6	60
192	Kishonite, VH ₂ , and Oreillyite, Cr ₂ N, Two New Minerals from the Corundum Xenocrysts of Mt Carmel, Northern Israel. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 1118	2.4	5
191	A facile methodology using quantum dot multiplex labels for tracking co-transfection.. <i>RSC Advances</i> , 2019 , 9, 20053-20057	3.7	2
190	A Showcase of Analytical Techniques: Native V in Hibonite. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2486-2487	2.4	3
189	Nano-porous pyrite and organic matter in 3.5-billion-year-old stromatolites record primordial life. <i>Geology</i> , 2019 , 47, 1039-1043	5	39
188	Why Do Colloidal Wurtzite Semiconductor Nanoplatelets Have an Atomically Uniform Thickness of Eight Monolayers?. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3465-3471	6.4	12
187	A terrestrial magmatic hibonite-grossite-vanadium assemblage: Desilication and extreme reduction in a volcanic plumbing system, Mount Carmel, Israel. <i>American Mineralogist</i> , 2019 , 104, 207-219	2.9	20

186	Unique Ni Crystalline Core/Ni Phosphide Amorphous Shell Heterostructured Electrocatalyst for Hydrazine Oxidation Reaction of Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19048-19055	9.5	29
185	Colloidal quasi-one-dimensional dual semiconductor core/shell nanorod couple heterostructures with blue fluorescence. <i>Nanoscale</i> , 2019 , 11, 10190-10197	7.7	8
184	Spontaneous Formation of Heterodimer Au@Fe ₇ S ₈ Nanoplatelets by a Seeded Growth Approach. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10604-10613	3.8	7
183	Iron Single Atoms on Graphene as Nonprecious Metal Catalysts for High-Temperature Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Science</i> , 2019 , 6, 1802066	13.6	107
182	Challenges in Determining the Location of Dopants, to Study the Influence of Metal Doping on the Photocatalytic Activities of ZnO Nanopowders. <i>Nanomaterials</i> , 2019 , 9,	5.4	15
181	Chromium in Corundum: Ultra-high Contents Under Reducing Conditions. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2484-2485	0.5	
180	1 billion-year-old cell contents preserved in monazite and xenotime. <i>Scientific Reports</i> , 2019 , 9, 9068	4.9	4
179	Colloidal Single-Layer Photocatalysts for Methanol-Storable Solar H Fuel. <i>Advanced Materials</i> , 2019 , 31, e1905540	24	23
178	Correlative Microscopy of Diverse Filamentous Microfossils from 850 Ma Rocks. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2466-2467	0.5	0
177	Critically testing olivine-hosted putative martian biosignatures in the Yamato 000593 meteorite-Geobiological implications. <i>Geobiology</i> , 2019 , 17, 691-707	4.3	2
176	Comparative multi-scale analysis of filamentous microfossils from the c. 850 Ma Bitter Springs Group and filaments from the c. 3460 Ma Apex chert. <i>Journal of the Geological Society</i> , 2019 , 176, 1247-1260	2.7	4
175	Photocatalysts: Colloidal Single-Layer Photocatalysts for Methanol-Storable Solar H ₂ Fuel (Adv. Mater. 49/2019). <i>Advanced Materials</i> , 2019 , 31, 1970348	24	
174	Micro- and Nanoscale Identification of Rare Earth Element Mineral Associations in an Acidified Dredge Spoil and Adjacent Reduced Sediments. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 51-61	3.2	3
173	Panorama of boron nitride nanostructures via lamp ablation. <i>Nano Research</i> , 2019 , 12, 557-562	10	3
172	Interrogation of the Effect of Polymorphism of a Metal-Organic Framework Host on the Structure of Embedded Pd Guest Nanoparticles. <i>ChemPhysChem</i> , 2019 , 20, 745-751	3.2	3
171	Volcanogenic Pseudo-Fossils from the ~3.48 Ga Dresser Formation, Pilbara, Western Australia. <i>Astrobiology</i> , 2018 , 18, 539-555	3.7	21
170	A 3D Multifunctional Architecture for Lithium-Sulfur Batteries with High Areal Capacity. <i>Small Methods</i> , 2018 , 2, 1800067	12.8	28
169	A FIB-STEM Study of Strontium Segregation and Interface Formation of Directly Assembled La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-λ} Cathode on Y ₂ O ₃ -ZrO ₂ Electrolyte of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F417-F429	3.9	29

168	Remarkably preserved tephra from the 3430 Ma Strelley Pool Formation, Western Australia: Implications for the interpretation of Precambrian microfossils. <i>Earth and Planetary Science Letters</i> , 2018 , 487, 33-43	5.3	16
167	Atomically Dispersed Transition Metals on Carbon Nanotubes with Ultrahigh Loading for Selective Electrochemical Carbon Dioxide Reduction. <i>Advanced Materials</i> , 2018 , 30, e1706287	24	352
166	Electrochemically substituted metal phthalocyanines, e-MPc (M = Co, Ni), as highly active and selective catalysts for CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1370-1375	13	34
165	Mineralisation of filamentous cyanobacteria in Lake Thetis stromatolites, Western Australia. <i>Geobiology</i> , 2018 , 16, 203-215	4.3	14
164	Co@C/CoO _x coupled with N-doped layer-structured carbons for excellent CO ₂ capture and oxygen reduction reaction. <i>Carbon</i> , 2018 , 133, 306-315	10.4	25
163	Scanning and transmission analytical electron microscopy (STEM-EDX) can identify structural forms of lead by mapping of clay crystals. <i>Geoderma</i> , 2018 , 310, 191-200	6.7	3
162	Nanodiamonds in sp ² /sp ³ configuration for radical to nonradical oxidation: Core-shell layer dependence. <i>Applied Catalysis B: Environmental</i> , 2018 , 222, 176-181	21.8	157
161	Spherical Al ₂ O ₃ suspensions layered sequentially with anionic and cationic polyelectrolytes: Chemistry, rheology and TEM images. <i>Powder Technology</i> , 2018 , 338, 716-724	5.2	6
160	Active, durable bismuth oxide-manganite composite oxygen electrodes: Interface formation induced by cathodic polarization. <i>Journal of Power Sources</i> , 2018 , 397, 16-24	8.9	11
159	Single-Atom Catalysts: Atomically Dispersed Transition Metals on Carbon Nanotubes with Ultrahigh Loading for Selective Electrochemical Carbon Dioxide Reduction (Adv. Mater. 13/2018). <i>Advanced Materials</i> , 2018 , 30, 1870088	24	7
158	Spontaneous Formation of Noble- and Heavy-Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis. <i>Advanced Materials</i> , 2018 , 30, e1803351	24	38
157	Hierarchically porous cobalt-carbon nanosphere-in-microsphere composites with tunable properties for catalytic pollutant degradation and electrochemical energy storage. <i>Journal of Colloid and Interface Science</i> , 2018 , 530, 556-566	9.3	15
156	High performance anode with dendritic porous structure for low temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 17849-17856	6.7	14
155	A microbial role in the construction of Mono Lake carbonate chimneys?. <i>Geobiology</i> , 2018 , 16, 540-555	4.3	13
154	Generation of amorphous carbon and crystallographic texture during low-temperature subseismic slip in calcite fault gouge. <i>Geology</i> , 2018 , 46, 163-166	5	10
153	Organic matter network in post-mature Marcellus Shale: Effects on petrophysical properties. <i>AAPG Bulletin</i> , 2018 , 102, 2305-2332	2.5	18
152	Carmeltazite, ZrAl ₂ Ti ₄ O ₁₁ , a New Mineral Trapped in Corundum from Volcanic Rocks of Mt Carmel, Northern Israel. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 601	2.4	17
151	Intracellular speciation of gold nanorods alters the conformational dynamics of genomic DNA. <i>Nature Nanotechnology</i> , 2018 , 13, 1148-1153	28.7	10

150	Photocatalysis: Spontaneous Formation of Noble- and Heavy-Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis (Adv. Mater. 39/2018). <i>Advanced Materials</i> , 2018 , 30, 1870296 ²⁴		
149	One-Pot Pyrolysis Method to Fabricate Carbon Nanotube Supported Ni Single-Atom Catalysts with Ultrahigh Loading. <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	14
148	NiO/ZnO Nanoheterojunction Networks for Room-Temperature Volatile Organic Compounds Sensing. <i>Advanced Optical Materials</i> , 2018 , 6, 1800677	8.1	38
147	Interface formation and Mn segregation of directly assembled La _{0.8} Sr _{0.2} MnO ₃ cathode on Y ₂ O ₃ -ZrO ₂ and Gd ₂ O ₃ -CeO ₂ electrolytes of solid oxide fuel cells. <i>Solid State Ionics</i> , 2018 , 325, 176-188	3.3	14
146	Nanogeochemistry of hydrothermal magnetite. <i>Contributions To Mineralogy and Petrology</i> , 2018 , 173, 1	3.5	41
145	Efficient and Durable Bifunctional Oxygen Catalysts Based on NiFeO@MnO Core-Shell Structures for Rechargeable Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8121-8133	9.5	64
144	Highly active and stable Er _{0.4} Bi _{1.6} O ₃ decorated La _{0.76} Sr _{0.19} MnO ₃ nanostructured oxygen electrodes for reversible solid oxide cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12149-12157	13	50
143	Understanding the adsorptive interactions of arsenate-iron nanoparticles with curved fullerene-like sheets in activated carbon using a quantum mechanics/molecular mechanics computational approach. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14262-14268	3.6	4
142	Synthesis of calcium chlorapatite nanoparticles and nanorods via a mechanically-induced solid-state displacement reaction and subsequent heat treatment. <i>Ceramics International</i> , 2017 , 43, 11410-11414	5.1	6
141	Crystallography of refractory metal nuggets in carbonaceous chondrites: A transmission Kikuchi diffraction approach. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 216, 42-60	5.5	7
140	Magnetically recoverable FeO@Au-coated nanoscale catalysts for the A-coupling reaction. <i>Dalton Transactions</i> , 2017 , 46, 5133-5137	4.3	34
139	A FIB-STEM Study of La _{0.8} Sr _{0.2} MnO ₃ Cathode and Y ₂ O ₃ -ZrO ₂ /Gd ₂ O ₃ -CeO ₂ Electrolyte Interfaces of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F1437-F1447	3.9	17
138	Critical testing of potential cellular structures within microtubes in 145 Ma volcanic glass from the Argo Abyssal Plain. <i>Chemical Geology</i> , 2017 , 466, 575-587	4.2	9
137	Yolk-Shell-Structured Cu/Fe@Fe ₂ O ₃ Nanoparticles Loaded Graphitic Porous Carbon for the Oxygen Reduction Reaction. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700158	3.1	10
136	In situ analysis of Refractory Metal Nuggets in carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 216, 61-81	5.5	27
135	Contrasting microfossil preservation and lake chemistries within the 1200-1000 Ma Torridonian Supergroup of NW Scotland. <i>Geological Society Special Publication</i> , 2017 , 448, 105-119	1.7	3
134	New insights into the Precambrian fossil record using correlative electron and ion beam microscopy 2016 , 1005-1006		
133	First terrestrial occurrence of tistarite (Ti ₂ O ₃): Ultra-low oxygen fugacity in the upper mantle beneath Mount Carmel, Israel. <i>Geology</i> , 2016 , 44, 815-818	5	42

132	Individual particle morphology, coatings, and impurities of black carbon aerosols in Antarctic ice and tropical rainfall. <i>Geophysical Research Letters</i> , 2016 , 43, 11,875	4.9	8
131	Heteroatom (N or N-S)-Doping Induced Layered and Honeycomb Microstructures of Porous Carbons for CO ₂ Capture and Energy Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 8651-8661	15.6	133
130	In situ assembled La _{0.8} Sr _{0.2} MnO ₃ cathodes on a Y ₂ O ₃ /ZrO ₂ electrolyte of solid oxide fuel cells □ interface and electrochemical activity. <i>RSC Advances</i> , 2016 , 6, 99211-99219	3.7	20
129	Functional Reactive Polymer Electrospun Matrix. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4934-99.5	9.5	21
128	Triconstituent co-assembly synthesis of N,S-doped carbon□silica nanospheres with smooth and rough surfaces. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3721-3727	13	33
127	Dye functionalized carbon nanotubes for photoelectrochemical water splitting □role of inner tubes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2473-2483	13	23
126	Controlling embedment and surface chemistry of nanoclusters in metal-organic frameworks. <i>Chemical Communications</i> , 2016 , 52, 5175-8	5.8	14
125	Triply responsive soft matter nanoparticles based on poly[oligo(ethylene glycol) methyl ether methacrylate-block-3-phenylpropyl methacrylate] copolymers. <i>Polymer Chemistry</i> , 2016 , 7, 2740-2750	4.9	21
124	3.46 Ga Apex chert □microfossils□reinterpreted as mineral artefacts produced during phyllosilicate exfoliation. <i>Gondwana Research</i> , 2016 , 36, 296-313	5.1	32
123	Synthesis and characterisation of non-ionic AB-diblock nanoparticles prepared by RAFT dispersion polymerization with polymerization-induced self-assembly. <i>RSC Advances</i> , 2016 , 6, 28130-28139	3.7	12
122	Probing the interactions of phenol with oxygenated functional groups on curved fullerene-like sheets in activated carbon. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3700-5	3.6	9
121	A simple procedure for the production of large ferromagnetic cobalt nanoparticles. <i>Dalton Transactions</i> , 2016 , 45, 11983-9	4.3	7
120	A new occurrence of ambient inclusion trails from the ~1900-million-year-old Gunflint Formation, Ontario: nanocharacterization and testing of potential formation mechanisms. <i>Geobiology</i> , 2016 , 14, 440-56	4.3	5
119	Porous Carbon: Heteroatom (N or N-S)-Doping Induced Layered and Honeycomb Microstructures of Porous Carbons for CO ₂ Capture and Energy Applications (Adv. Funct. Mater. 47/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 8650-8650	15.6	6
118	Influence of aspect ratio of magnetite coated gold nanorods in hydrogen peroxide sensing. <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 492-497	8.5	17
117	Structurally confined ultrafine NiO nanoparticles on graphene as a highly efficient and durable electrode material for supercapacitors. <i>RSC Advances</i> , 2016 , 6, 51356-51366	3.7	13
116	Solving the Controversy of Earth□ Oldest Fossils Using Electron Microscopy. <i>Microscopy Today</i> , 2016 , 24, 12-17	0.4	4
115	Surface-tailored nanodiamonds as excellent metal-free catalysts for organic oxidation. <i>Carbon</i> , 2016 , 103, 404-411	10.4	127

114	A class of transition metal-oxide@MnOx core-shell structured oxygen electrocatalysts for reversible O ₂ reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13881-13889	13	35
113	Magnetically Directed Assembly of Nanocrystals for Catalytic Control of a Three-Component Coupling Reaction. <i>Crystal Growth and Design</i> , 2016 , 16, 4773-4776	3.5	27
112	Changing the picture of Earth's earliest fossils (3.5-1.9 Ga) with new approaches and new discoveries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4859-64	11.5	105
111	Uncovering framboidal pyrite biogenicity using nano-scale CNorg mapping. <i>Geology</i> , 2015 , 43, 27-30	5	63
110	Magnetic particle-mediated magnetoreception. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 0499	4.1	55
109	Magnetotactic Bacteria and Honey Bees: Model Systems for Characterising an Iron Oxide Mediated Magnetoreceptor. <i>Microscopy and Microanalysis</i> , 2015 , 21, 85-86	0.5	1
108	Barium Titanate Nanoparticles for Biomarker Applications. <i>Journal of Physics: Conference Series</i> , 2015 , 644, 012037	0.3	7
107	Characterizing black carbon in rain and ice cores using coupled tangential flow filtration and transmission electron microscopy. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 3959-3969	4	11
106	A selective laser melting and solution heat treatment refined Al ₁₂ Si alloy with a controllable ultrafine eutectic microstructure and 25% tensile ductility. <i>Acta Materialia</i> , 2015 , 95, 74-82	8.4	352
105	Microbial pathways and palaeoenvironmental conditions involved in the formation of phosphorite grains, Safaga District, Egypt. <i>Sedimentary Geology</i> , 2015 , 325, 41-58	2.8	12
104	No evidence for intracellular magnetite in putative vertebrate magnetoreceptors identified by magnetic screening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 262-7	11.5	58
103	Core-shell Structured PtRuCo _x Nanoparticles on Carbon Nanotubes as Highly Active and Durable Electrocatalysts for Direct Methanol Fuel Cells. <i>Electrochimica Acta</i> , 2015 , 177, 217-226	6.7	21
102	Mechanochemical synthesis of amorphous silicon nanoparticles. <i>RSC Advances</i> , 2014 , 4, 21979-21983	3.7	14
101	New Insights into the adsorption of aurocyanide ion on activated carbon surface: electron microscopy analysis and computational studies using fullerene-like models. <i>Langmuir</i> , 2014 , 30, 7703-9	4	10
100	Geochemistry and nano-structure of a putative ~3240 million-year-old black smoker biota, Sulphur Springs Group, Western Australia. <i>Precambrian Research</i> , 2014 , 249, 1-12	3.9	14
99	The nano-scale anatomy of a complex carbon-lined microtube in volcanic glass from the ~92Ma Troodos Ophiolite, Cyprus. <i>Chemical Geology</i> , 2014 , 363, 1-12	4.2	16
98	Enhanced cellular preservation by clay minerals in 1 billion-year-old lakes. <i>Scientific Reports</i> , 2014 , 4, 5844	9	50
97	Electron microscopy reveals unique microfossil preservation in 1 billion-year-old lakes. <i>Journal of Physics: Conference Series</i> , 2014 , 522, 012024	0.3	

96	Biological applications of energy-filtered TEM. <i>Methods in Molecular Biology</i> , 2014 , 1117, 689-706	1.4	5
95	Microstructural evolution and nanoscale crystallography in scleractinian coral spherulites. <i>Journal of Structural Biology</i> , 2013 , 183, 57-65	3.4	21
94	The effect of magnetically induced linear aggregates on proton transverse relaxation rates of aqueous suspensions of polymer coated magnetic nanoparticles. <i>Nanoscale</i> , 2013 , 5, 2152-63	7.7	43
93	Nanoscale analysis of pyritized microfossils reveals differential heterotrophic consumption in the ~1.9-Ga Gunflint chert. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8020-4	11.5	54
92	Enhancement of the Cell Specific Proton Relaxivities of Human Red Blood Cells via Loading With Gadoteric Acid. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 414-420	2	1
91	An iron-rich organelle in the cuticular plate of avian hair cells. <i>Current Biology</i> , 2013 , 23, 924-9	6.3	34
90	The iron distribution and magnetic properties of schistosome eggshells: implications for improved diagnostics. <i>PLoS Neglected Tropical Diseases</i> , 2013 , 7, e2219	4.8	19
89	Metallosurfactants in the preparation of mesoporous silicas. <i>Microporous and Mesoporous Materials</i> , 2012 , 151, 264-270	5.3	15
88	Insights into the crystal and aggregate structure of Fe ³⁺ oxide/silica co-precipitates. <i>American Mineralogist</i> , 2012 , 97, 63-69	2.9	12
87	Cytotoxicity of monodispersed chitosan nanoparticles against the Caco-2 cells. <i>Toxicology and Applied Pharmacology</i> , 2012 , 262, 273-82	4.6	47
86	Taphonomy of very ancient microfossils from the ~3400Ma Strelley Pool Formation and ~1900Ma Gunflint Formation: New insights using a focused ion beam. <i>Precambrian Research</i> , 2012 , 220-221, 234-250	23.9	75
85	Uniform dispersion of lanthanum hexaboride nanoparticles in a silica thin film: synthesis and optical properties. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5833-8	9.5	25
84	Clusters of iron-rich cells in the upper beak of pigeons are macrophages not magnetosensitive neurons. <i>Nature</i> , 2012 , 484, 367-70	50.4	135
83	Characterization of plasmonic nanostructures by analytical TEM. <i>Journal of Physics: Conference Series</i> , 2012 , 371, 012078	0.3	1
82	Optical properties of silicon semiconductor-supported gold nanoparticles obtained by sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 8594-9	1.3	1
81	Room temperature synthesis of upconversion fluorescent nanocrystals. <i>Chemical Communications</i> , 2011 , 47, 10043-5	5.8	6
80	Earliest microbially mediated pyrite oxidation in ~3.4 billion-year-old sediments. <i>Earth and Planetary Science Letters</i> , 2011 , 301, 393-402	5.3	53
79	Matrix-mediated biomineralization in marine mollusks: a combined transmission electron microscopy and focused ion beam approach. <i>Microscopy and Microanalysis</i> , 2011 , 17, 220-5	0.5	13

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