

Martin Saunders

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221
papers

6,795
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43
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73
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228
ext. papers

7,732
ext. citations

6.3
avg, IF

5.9
L-index

#	Paper	IF	Citations
221	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
220	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
219	Magnetite Nanoparticle Dispersions Stabilized with Triblock Copolymers. <i>Chemistry of Materials</i> , 2003 , 15, 1367-1377	9.6	340
218	Microfossils of sulphur-metabolizing cells in 3.4-billion-year-old rocks of Western Australia. <i>Nature Geoscience</i> , 2011 , 4, 698-702	18.3	296
217	Determination of lattice polarity for growth of GaN bulk single crystals and epitaxial layers. <i>Applied Physics Letters</i> , 1996 , 69, 337-339	3.4	216
216	Effect of Particle Size on the Photocatalytic Activity of Nanoparticulate Zinc Oxide. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 43-51	2.3	179
215	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
214	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
213	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
212	Surface-tailored nanodiamonds as excellent metal-free catalysts for organic oxidation. <i>Carbon</i> , 2016 , 103, 404-411	10.4	127
211	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
210	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
209	Uptake and cytotoxicity of chitosan nanoparticles in human liver cells. <i>Toxicology and Applied Pharmacology</i> , 2010 , 249, 148-57	4.6	97
208	Naturally occurring gold nanoparticles and nanoplates. <i>Geology</i> , 2008 , 36, 571	5	92
207	Layers-like deformation associated with stress-induced martensitic transformation in NiTi. <i>Scripta Materialia</i> , 2004 , 50, 193-198	5.6	90
206	Mechanochemical synthesis of nanocrystalline SnO ₂ /ZnO photocatalysts. <i>Nanotechnology</i> , 2006 , 17, 692-698	3.4	84
205	Multimodal analysis of PEI-mediated endocytosis of nanoparticles in neural cells. <i>ACS Nano</i> , 2011 , 5, 8640-8647	10.67	76

204	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	3.9	75
203	Clay-sized minerals in permafrost-affected soils (Cryosols) from king George Island, Antarctica. <i>Clays and Clay Minerals</i> , 2006 , 54, 721-736	2.1	72
202	Magnesium oxide as a candidate high- ϵ -gate dielectric. <i>Applied Physics Letters</i> , 2006 , 88, 142901	3.4	69
201	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
200	Uncovering framboidal pyrite biogenicity using nano-scale CNorg mapping. <i>Geology</i> , 2015 , 43, 27-30	5	63
199	Size Selective Synthesis of Superparamagnetic Nanoparticles in Thin Fluids under Continuous Flow Conditions. <i>Advanced Functional Materials</i> , 2008 , 18, 922-927	15.6	62
198	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
197	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
196	Tailoring the photocatalytic activity of nanoparticulate zinc oxide by transition metal oxide doping. <i>Materials Chemistry and Physics</i> , 2009 , 114, 382-386	4.4	58
195	Visualising gold inside tumour cells following treatment with an antitumour gold(I) complex. <i>Metallomics</i> , 2011 , 3, 917-25	4.5	57
194	Magnetic particle-mediated magnetoreception. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 0499	4.1	55
193	Measurement of low-order structure factors for silicon from zone-axis CBED patterns. <i>Ultramicroscopy</i> , 1995 , 60, 311-323	3.1	55
192	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
191	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
190	Structural and Magnetic Properties of Oxidatively Stable Cobalt Nanoparticles Encapsulated in Graphite Shells. <i>Chemistry of Materials</i> , 2006 , 18, 2648-2655	9.6	52
189	Highly active and stable Er _{0.4} Bi _{1.6} O ₃ decorated La _{0.76} Sr _{0.19} MnO ₃ + δ nanostructured oxygen electrodes for reversible solid oxide cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12149-12157	13	50
188	Enhanced cellular preservation by clay minerals in 1 billion-year-old lakes. <i>Scientific Reports</i> , 2014 , 4, 5844	4.9	50
187	Controlled Scalable Synthesis of ZnO Nanoparticles. <i>Chemistry of Materials</i> , 2007 , 19, 5453-5459	9.6	48

186	Cytotoxicity of monodispersed chitosan nanoparticles against the Caco-2 cells. <i>Toxicology and Applied Pharmacology</i> , 2012 , 262, 273-82	4.6	47
185	Continuous flow nano-technology: manipulating the size, shape, agglomeration, defects and phases of silver nano-particles. <i>Lab on A Chip</i> , 2007 , 7, 1800-5	7.2	47
184	The interaction of EDTA with barium sulfate. <i>Journal of Colloid and Interface Science</i> , 2007 , 316, 553-61	9.3	46
183	Encapsulation and sustained release of curcumin using superparamagnetic silica reservoirs. <i>Chemistry - A European Journal</i> , 2009 , 15, 5661-5	4.8	45
182	Size Analysis of PDMS/Magnetite Nanoparticle Complexes: Experiment and Theory. <i>Chemistry of Materials</i> , 2008 , 20, 2184-2191	9.6	45
181	Sensitivity and accuracy of CBED pattern matching. <i>Ultramicroscopy</i> , 1992 , 45, 241-251	3.1	45
180	High-Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. <i>Small</i> , 2021 , 17, e2101573	11	44
179	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
178	A comparison of methods for the measurement of the particle-size distribution of magnetic nanoparticles. <i>Journal of Applied Crystallography</i> , 2007 , 40, s495-s500	3.8	43
177	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
176	Determination of the atomic structure of inversion domain boundaries in GaN by transmission electron microscopy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998 , 77, 273-286		42
175	Green light-emitting LaPO ₄ :Ce(3+):Tb(3+) koosh nanoballs assembled by p-sulfonato-calix[6]arene coated superparamagnetic Fe ₃ O ₄ . <i>Chemical Communications</i> , 2010 , 46, 3074-8	5.8	41
174	Nanogeochemistry of hydrothermal magnetite. <i>Contributions To Mineralogy and Petrology</i> , 2018 , 173, 1	3.5	41
173	Characterization of biominerals in the radula teeth of the chiton, <i>Acanthopleura hirtosa</i> . <i>Journal of Structural Biology</i> , 2009 , 167, 55-61	3.4	40
172	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
171	Magnetite ferrofluids stabilized by sulfonato-calixarenes. <i>Chemical Communications</i> , 2007 , 1948-50	5.8	39
170	Fine tuning the production of nanosized beta-carotene particles using spinning disk processing. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13847-53	16.4	39
169	Spontaneous Formation of Noble- and Heavy-Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis. <i>Advanced Materials</i> , 2018 , 30, e1803351	24	38

168	NiO/ZnO Nanoheterojunction Networks for Room-Temperature Volatile Organic Compounds Sensing. <i>Advanced Optical Materials</i> , 2018 , 6, 1800677	8.1	38
167	Poly(styrene-b-4-vinylphenoxyphthalonitrile)/Cobalt Complexes and Their Conversion to Oxidatively Stable Cobalt Nanoparticles. <i>Chemistry of Materials</i> , 2005 , 17, 5246-5254	9.6	35
166	A class of transition metal-oxide/MnOx core-shell structured oxygen electrocatalysts for reversible O2 reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13881-13889	13	35
165	Magnetically recoverable FeO@Au-coated nanoscale catalysts for the A-coupling reaction. <i>Dalton Transactions</i> , 2017 , 46, 5133-5137	4.3	34
164	Electrochemically substituted metal phthalocyanines, e-MPc (M = Co, Ni), as highly active and selective catalysts for CO2 reduction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1370-1375	13	34
163	An iron-rich organelle in the cuticular plate of avian hair cells. <i>Current Biology</i> , 2013 , 23, 924-9	6.3	34
162	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
161	Mechanochemical synthesis of nanoparticulate ZnO/ZnWO4 powders and their photocatalytic activity. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 139-144	6	33
160	Effects of titanium(IV) ions on human monocyte-derived dendritic cells. <i>Metallomics</i> , 2009 , 1, 166-74	4.5	33
159	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
158	Templating silver nanoparticle growth using phosphonated calixarenes. <i>Chemical Communications</i> , 2009 , 3074-6	5.8	31
157	Inversion of convergent-beam electron diffraction patterns. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1992 , 48, 555-562		30
156	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
155	A FIB-STEM Study of Strontium Segregation and Interface Formation of Directly Assembled La0.6Sr0.4Co0.2Fe0.8O3- δ Cathode on Y2O3-ZrO2 Electrolyte of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F417-F429	3.9	29
154	GaMg alloy nanoparticles for broadly tunable plasmonics. <i>Small</i> , 2011 , 7, 751-6	11	29
153	A 3D Multifunctional Architecture for Lithium/Sulfur Batteries with High Areal Capacity. <i>Small Methods</i> , 2018 , 2, 1800067	12.8	28
152	Spinning disc processing technology: potential for large-scale manufacture of chitosan nanoparticles. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 4326-36	3.9	28
151	In situ analysis of Refractory Metal Nuggets in carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 216, 61-81	5.5	27

150	Continuous flow synthesis of small silver nanoparticles involving hydrogen as the reducing agent. <i>Green Chemistry</i> , 2010 , 12, 1012	10	27
149	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
148	Uric acid deposits in symbiotic marine algae. <i>Plant, Cell and Environment</i> , 2009 , 32, 170-7	8.4	26
147	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
146	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
145	Structural and magnetic properties of cobalt nanoparticles encased in siliceous shells. <i>Chemistry of Materials</i> , 2007 , 19, 6597-6604	9.6	25
144	Nickel distribution and speciation in rapidly dehydroxylated goethite in oxide-type lateritic nickel ores: XAS and TEM spectroscopic (EELS and EFTEM) investigation. <i>Australian Journal of Earth Sciences</i> , 2011 , 58, 745-765	1.4	24
143	Dye functionalized carbon nanotubes for photoelectrochemical water splitting ¶ole of inner tubes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2473-2483	13	23
142	Colloidal Single-Layer Photocatalysts for Methanol-Storable Solar H Fuel. <i>Advanced Materials</i> , 2019 , 31, e1905540	24	23
141	Measurement of Debye-Waller factors by electron precession. <i>Ultramicroscopy</i> , 1998 , 75, 61-67	3.1	23
140	Effect of oxidation on the chemical bonding structure of PECVD SiN _x thin films. <i>Journal of Applied Physics</i> , 2006 , 100, 123516	2.5	23
139	Quantitative electron diffraction: From atoms to bonds. <i>Contemporary Physics</i> , 1996 , 37, 441-456	3.3	22
138	Volcanogenic Pseudo-Fossils from the ~3.48 Ga Dresser Formation, Pilbara, Western Australia. <i>Astrobiology</i> , 2018 , 18, 539-555	3.7	21
137	Functional Reactive Polymer Electrospun Matrix. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4934-99.5		21
136	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
135	Microstructural evolution and nanoscale crystallography in scleractinian coral spherulites. <i>Journal of Structural Biology</i> , 2013 , 183, 57-65	3.4	21
134	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
133	Photochemical generation of small silver nanoparticles involving multi-functional phosphonated calixarenes. <i>New Journal of Chemistry</i> , 2010 , 34, 1834	3.6	21

132	The chiton stylus canal: An element delivery pathway for tooth cusp biomineralization. <i>Journal of Morphology</i> , 2009 , 270, 588-600	1.6	21
131	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
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	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
128	Distribution of Protein Bodies and Phytate-Rich Inclusions in Grain Tissues of Low and High Iron Rice Genotypes. <i>Cereal Chemistry</i> , 2008 , 85, 257-265	2.4	19
127	Energy-filtered convergent-beam diffraction: examples and future prospects. <i>Ultramicroscopy</i> , 1995 , 59, 1-13	3.1	19
126	Hierarchical aqueous self-assembly of C ₆₀ nano-whiskers and C ₆₀ -silver nano-hybrids under continuous flow. <i>Lab on A Chip</i> , 2007 , 7, 1121-4	7.2	18
125	A comparative evaluation of the photocatalytic and optical properties of nanoparticulate ZnO synthesised by mechanochemical processing. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 243-248	2.3	18
124	Organic matter network in post-mature Marcellus Shale: Effects on petrophysical properties. <i>AAPG Bulletin</i> , 2018 , 102, 2305-2332	2.5	18
123	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
122	Optical and photocatalytic properties of nanoparticulate (TiO ₂) _x (ZnO) _{1-x} powders. <i>Journal of Alloys and Compounds</i> , 2010 , 489, L17-L21	5.7	17
121	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
120	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
119	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
118	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
117	Generating hydrogen gas from methane with carbon captured as pure spheroidal nanomaterials. <i>Chemistry - A European Journal</i> , 2011 , 17, 9188-92	4.8	16
116	Ultrastructure of the epithelial cells associated with tooth biomineralization in the chiton <i>Acanthopleura hirtosa</i> . <i>Microscopy and Microanalysis</i> , 2009 , 15, 154-65	0.5	16
115	Optical and photocatalytic properties of nanocrystalline TiO ₂ synthesised by solid-state chemical reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 2341-2348	3.9	16

114	An electron microscopy study of β -FeOOH (akaganite) nanorods and nanotubes. <i>CrystEngComm</i> , 2006 , 8, 36-40	3.3	16
113	The use of Bethe potentials in zone-axis CBED pattern matching. <i>Ultramicroscopy</i> , 1996 , 65, 45-52	3.1	16
112	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
111	Activation-free supercapacitor electrode based on surface-modified $\text{Sr}_2\text{CoMo}_{1-x}\text{Ni}_x\text{O}_6$ perovskite. <i>Chemical Engineering Journal</i> , 2020 , 390, 124645	14.7	15
110	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
109	Metallosurfactants in the preparation of mesoporous silicas. <i>Microporous and Mesoporous Materials</i> , 2012 , 151, 264-270	5.3	15
108	Mineralisation of filamentous cyanobacteria in Lake Thetis stromatolites, Western Australia. <i>Geobiology</i> , 2018 , 16, 203-215	4.3	14
107	Controlling embedment and surface chemistry of nanoclusters in metal-organic frameworks. <i>Chemical Communications</i> , 2016 , 52, 5175-8	5.8	14
106	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
105	Mechanochemical synthesis of amorphous silicon nanoparticles. <i>RSC Advances</i> , 2014 , 4, 21979-21983	3.7	14
104	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
103	Thickness dependence of higher-order Laue zone line positions at strongly dynamic zone axes. <i>Ultramicroscopy</i> , 1993 , 48, 1-11	3.1	14
102	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
101	Interface formation and Mn segregation of directly assembled $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ cathode on $\text{Y}_2\text{O}_3\text{-ZrO}_2$ and $\text{Gd}_2\text{O}_3\text{-CeO}_2$ electrolytes of solid oxide fuel cells. <i>Solid State Ionics</i> , 2018 , 325, 176-188	3.3	14
100	A microbial role in the construction of Mono Lake carbonate chimneys?. <i>Geobiology</i> , 2018 , 16, 540-555	4.3	13
99	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
98	Nanorings of self-assembled fullerene C(70) as templating nanoreactors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16338-9	16.4	13
97	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

96	A comparative study of surface segregation and interface of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-λ} 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
95	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
94	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
93	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
92	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
91	Polymer brushes on multiwalled carbon nanotubes by activators regenerated by electron transfer for atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 4283-4291	2.5	12
90	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
89	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
88	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
87	Microstructural analysis of interfaces in a ferromagnetic-multiferroic epitaxial heterostructure. <i>Journal of Applied Physics</i> , 2011 , 109, 034103	2.5	11
86	Elemental analysis of extracellular polymeric substances and granules in chalcopyrite bioleaching microbes. <i>Hydrometallurgy</i> , 2010 , 104, 376-381	4	11
85	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
84	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
83	Microstructure and magnetic properties of Ni-rich Ni ₅₄ Mn _{25.7} Ga _{20.3} ferromagnetic shape memory alloy thin film. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, 1078-1082	2.8	10
82	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
81	Intracellular speciation of gold nanorods alters the conformational dynamics of genomic DNA. <i>Nature Nanotechnology</i> , 2018 , 13, 1148-1153	28.7	10
80	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
79	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

78	Confinement of Silver Triangles in Silver Nanoplates Templated by Duplex DNA. <i>Crystal Growth and Design</i> , 2008 , 8, 1451-1453	3.5	9
77	A Novel Approach to FePt Assemblage and Synthesis. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5271-5278	3.8	9
76	Crystallization of silicon nitride thin films synthesized by plasma-enhanced chemical vapour deposition. <i>Scripta Materialia</i> , 2007 , 57, 739-742	5.6	9
75	Colloidal quasi-one-dimensional dual semiconductor core/shell nanorod couple heterostructures with blue fluorescence. <i>Nanoscale</i> , 2019 , 11, 10190-10197	7.7	8
74	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
73	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
72	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
71	Spontaneous Formation of Heterodimer AuBe ₇ S ₈ Nanoplatelets by a Seeded Growth Approach. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10604-10613	3.8	7
70	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
69	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
68	Barium Titanate Nanoparticles for Biomarker Applications. <i>Journal of Physics: Conference Series</i> , 2015 , 644, 012037	0.3	7
67	The modification of M41S materials: addition of metal clusters and nanoparticles. <i>New Journal of Chemistry</i> , 2010 , 34, 1286	3.6	7
66	Dietary iron-loaded rat liver haemosiderin and ferritin: in situ measurement of iron core nanoparticle size and cluster structure using anomalous small-angle X-ray scattering. <i>Physics in Medicine and Biology</i> , 2009 , 54, 1209-21	3.8	7
65	Recent Advances in Quantitative Convergent Beam Electron Diffraction. <i>Journal of Electron Microscopy</i> , 1996 , 45, 11-18		7
64	Comparison of interfaces for (Ba,Sr)TiO ₃ films deposited on Si and SiO ₂ /Si substrates. <i>Journal of Applied Physics</i> , 2004 , 95, 2672-2675	2.5	7
63	A simple procedure for the production of large ferromagnetic cobalt nanoparticles. <i>Dalton Transactions</i> , 2016 , 45, 11983-9	4.3	7
62	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
61	Spherulitic microbialites from modern hypersaline lakes, Rottneest Island, Western Australia. <i>Geobiology</i> , 2020 , 18, 725-741	4.3	6

60	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
59	Spherical γ -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
58	Room temperature synthesis of upconversion fluorescent nanocrystals. <i>Chemical Communications</i> , 2011 , 47, 10043-5	5.8	6
57	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
56	Biological applications of energy-filtered TEM. <i>Methods in Molecular Biology</i> , 2014 , 1117, 689-706	1.4	5
55	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
54	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
53	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
52	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
51	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
50	1 billion-year-old cell contents preserved in monazite and xenotime. <i>Scientific Reports</i> , 2019 , 9, 9068	4.9	4
49	Synthesis of rare earth hydroxide nanorods by room temperature reaction of oxide precursors with water. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 2633-2639	2.3	4
48	Fine-scale Analysis of Biomineralized Mollusc Teeth Using FIB and TEM. <i>Microscopy Today</i> , 2010 , 18, 24-28.4	2.4	4
47	Quantitative zone-axis convergent beam electron diffraction: current status and future prospects. <i>Microscopy and Microanalysis</i> , 2003 , 9, 411-8	0.5	4
46	Structural and analytical characterization of as-grown MgB ₂ film sputtered on differently oriented γ -Al ₂ O ₃ substrate. <i>Superconductor Science and Technology</i> , 2005 , 18, 92-100	3.1	4
45	Dubiofossils from a Mars-analogue subsurface palaeoenvironment: The limits of biogenicity criteria. <i>Geobiology</i> , 2021 , 19, 473-488	4.3	4
44	A possible billion-year-old holozoan with differentiated multicellularity. <i>Current Biology</i> , 2021 , 31, 2658-2665.e2	3.5	4
43	Solving the Controversy of Earth's Oldest Fossils Using Electron Microscopy. <i>Microscopy Today</i> , 2016 , 24, 12-17	0.4	4

42	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
41	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
40	Comment on "Flux Quantization in Magnetic Nanowires Imaged by Electron Holography". <i>Physical Review Letters</i> , 1996 , 77, 977	7.4	3
39	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
38	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
37	Panorama of boron nitride nanostructures via lamp ablation. <i>Nano Research</i> , 2019 , 12, 557-562	10	3
36	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
35	Cr ₂ O ₃ in corundum: Ultrahigh contents under reducing conditions. <i>American Mineralogist</i> , 2021 , 106, 1420-1437	2.9	3
34	A facile methodology using quantum dot multiplex labels for tracking co-transfection.. <i>RSC Advances</i> , 2019 , 9, 20053-20057	3.7	2
33	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
32	Critically testing olivine-hosted putative martian biosignatures in the Yamato 000593 meteorite-Geobiological implications. <i>Geobiology</i> , 2019 , 17, 691-707	4.3	2
31	Synthesis and Photocatalytic Activity of Doped Zinc Oxide Nanoparticles 2006 ,		2
30	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
29	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
28	Ti in corundum traces crystal growth in a highly reduced magma. <i>Scientific Reports</i> , 2021 , 11, 2439	4.9	2
27	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
26	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
25	Loading Erythrocytes with Maghemite Nanoparticles via Osmotic Pressure Induced Cell Membrane Pores 2010 ,		1

24	Elemental Ultrastructure of Bioleaching Bacteria and Archaea Grown on Different Energy Sources. <i>Advanced Materials Research</i> , 2009 , 71-73, 235-238	0.5	1
23	Characterization of plasmonic nanostructures by analytical TEM. <i>Journal of Physics: Conference Series</i> , 2012 , 371, 012078	0.3	1
22	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
21	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
20	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
19	Authigenic anatase within 1 billion-year-old cells. <i>Geobiology</i> , 2021 , 19, 3-17	4.3	1
18	Effects of hydrogen absorption on magnetism in Ni ₈₀ Fe ₂₀ /Y/Pd trilayers. <i>Physical Review B</i> , 2021 , 104,	3.3	1
17	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
16	Pathways of microfossil mineralisation by hematite in the 1878 Ma Gunflint Formation. <i>Chemical Geology</i> , 2021 , 581, 120419	4.2	1
15	Correlative Microscopy of Diverse Filamentous Microfossils from 850 Ma Rocks. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2466-2467	0.5	0
14	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
13	Three-dimensional nitrogen-doped graphene oxide beads for catalytic degradation of aqueous pollutants. <i>Chemical Engineering Journal</i> , 2022 , 446, 137042	14.7	0
12	A Showcase of Analytical Techniques: Native V in Hibonite. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2486-2487	2.5	0
11	New insights into the Precambrian fossil record using correlative electron and ion beam microscopy 2016 , 1005-1006		
10	Chromium in Corundum: Ultra-high Contents Under Reducing Conditions. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2484-2485	0.5	
9	Electron microscopy reveals unique microfossil preservation in 1 billion-year-old lakes. <i>Journal of Physics: Conference Series</i> , 2014 , 522, 012024	0.3	
8	Nature's Conveyor Belt- The Matrix Mediated Biomineralization of Magnetite in Chitons (Mollusca). <i>Microscopy and Microanalysis</i> , 2009 , 15, 898-899	0.5	
7	Structural and Chemical Characterisation of the Biomineralized Teeth in Marine Molluscs using Focused Ion Beam (FIB) Processing and TEM. <i>Microscopy and Microanalysis</i> , 2009 , 15, 902-903	0.5	

6 TEM Characterization of Novel Nano-hybrid Materials. *Microscopy and Microanalysis*, **2009**, 15, 1306-1307.5

5 Dendronised Polymers as Templates for In Situ Quantum Dot Synthesis. *Australian Journal of Chemistry*, **2020**, 73, 658 1.2

4 Single Atom Catalysts: Designed Iron Single Atom Catalysts for Highly Efficient Oxygen Reduction Reaction in Alkaline and Acid Media (Adv. Mater. Interfaces 8/2021). *Advanced Materials Interfaces*, **2021**, 8, 2170044 4.6

3 Poly(2-hydroxyethyl methacrylate) hydrogels doped with copper nanoparticles. *Journal of Nanoparticle Research*, **2021**, 23, 1 2.3

2 Photocatalysts: Colloidal Single-Layer Photocatalysts for Methanol-Storable Solar H₂ Fuel (Adv. Mater. 49/2019). *Advanced Materials*, **2019**, 31, 1970348 24

1 Photocatalysis: Spontaneous Formation of Noble- and Heavy-Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis (Adv. Mater. 39/2018). *Advanced Materials*, **2018**, 30, 1870296²⁴