

Stephen P O'Brien

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147
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12,575
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49
h-index

111
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159
ext. papers

13,531
ext. citations

9.6
avg, IF

6.38
L-index

#	Paper	IF	Citations
147	Structural diversity in binary nanoparticle superlattices. <i>Nature</i> , 2006 , 439, 55-9	50.4	1776
146	Copper oxide nanocrystals. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9506-11	16.4	756
145	Three-dimensional binary superlattices of magnetic nanocrystals and semiconductor quantum dots. <i>Nature</i> , 2003 , 423, 968-71	50.4	729
144	Structural characterization of self-assembled multifunctional binary nanoparticle superlattices. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3620-37	16.4	412
143	Synthesis of monodisperse nanoparticles of barium titanate: toward a generalized strategy of oxide nanoparticle synthesis. <i>Journal of the American Chemical Society</i> , 2001 , 123, 12085-6	16.4	410
142	Covalently bridging gaps in single-walled carbon nanotubes with conducting molecules. <i>Science</i> , 2006 , 311, 356-9	33.3	390
141	Magnetic, electronic, and structural characterization of nonstoichiometric iron oxides at the nanoscale. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14583-99	16.4	365
140	Zeta-Potential Measurements of Surfactant-Wrapped Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13684-13690	3.8	306
139	Hydrothermal and Postsynthesis Surface Modification of Cubic, MCM-48, and Ultralarge Pore SBA-15 Mesoporous Silica with Titanium. <i>Chemistry of Materials</i> , 2000 , 12, 898-911	9.6	276
138	Cooperative Assembly of Magnetic Nanoparticles and Block Copolypeptides in Aqueous Media. <i>Nano Letters</i> , 2003 , 3, 1489-1493	11.5	259
137	Quantitative Analysis of Copper Oxide Nanoparticle Composition and Structure by X-ray Photoelectron Spectroscopy. <i>Chemistry of Materials</i> , 2006 , 18, 6054-6058	9.6	251
136	Complete CO oxidation over Cu ₂ O nanoparticles supported on silica gel. <i>Nano Letters</i> , 2006 , 6, 2095-8	11.5	244
135	Quantum confinement in ZnO nanorods. <i>Applied Physics Letters</i> , 2004 , 85, 3833-3835	3.4	236
134	Zinc oxide quantum rods. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6206-7	16.4	229
133	Spectroscopic Characterization of the Surface of Iron Oxide Nanocrystals. <i>Chemistry of Materials</i> , 2005 , 17, 5970-5975	9.6	225
132	Synthesis of monodisperse nanocrystals of manganese oxides. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10180-1	16.4	218
131	Optical spectroscopy of individual single-walled carbon nanotubes of defined chiral structure. <i>Science</i> , 2006 , 312, 554-6	33.3	208

130	Origin of defect-related green emission from ZnO nanoparticles: effect of surface modification. <i>Nanoscale Research Letters</i> , 2007 , 2, 297-302	5	203
129	Probing electronic transitions in individual carbon nanotubes by Rayleigh scattering. <i>Science</i> , 2004 , 306, 1540-3	33.3	200
128	Morphological control and photoluminescence of zinc oxide nanocrystals. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14314-8	3.4	195
127	Bio-functionalization of monodisperse magnetic nanoparticles and their use as biomolecular labels in a magnetic tunnel junction based sensor. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 13030-5	3.4	187
126	Directing and sensing changes in molecular conformation on individual carbon nanotube field effect transistors. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15045-7	16.4	151
125	Excitation profile of surface-enhanced Raman scattering in graphene-metal nanoparticle based derivatives. <i>Nanoscale</i> , 2010 , 2, 1461-6	7.7	148
124	Polymorphism in AB(13) nanoparticle superlattices: an example of semiconductor-metal metamaterials. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8741-7	16.4	143
123	Long and Oriented Single-Walled Carbon Nanotubes Grown by Ethanol Chemical Vapor Deposition. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16451-16456	3.4	130
122	Charge and Photoionization Properties of Single Semiconductor Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 1725-1733	3.4	126
121	Structure direction of II-VI semiconductor quantum dot binary nanoparticle superlattices by tuning radius ratio. <i>ACS Nano</i> , 2008 , 2, 1219-29	16.7	125
120	Binary nanoparticle superlattices in the semiconductor-semiconductor system: CdTe and CdSe. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15702-9	16.4	118
119	Time-Resolved In-Situ Energy and Angular Dispersive X-ray Diffraction Studies of the Formation of the Microporous Gallophosphate ULM-5 under Hydrothermal Conditions. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1002-1015	16.4	116
118	Barium titanate nanocrystals and nanocrystal thin films: Synthesis, ferroelectricity, and dielectric properties. <i>Journal of Applied Physics</i> , 2006 , 100, 034316	2.5	111
117	Flexible BaTiO ₃ /PVDF gradated multilayer nanocomposite film with enhanced dielectric strength and high energy density. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9740-9747	7.1	110
116	Interactions between individual carbon nanotubes studied by Rayleigh scattering spectroscopy. <i>Physical Review Letters</i> , 2006 , 96, 167401	7.4	109
115	Controlled Growth of Single-Walled Carbon Nanotubes from an Ordered Mesoporous Silica Template. <i>Nano Letters</i> , 2003 , 3, 299-303	11.5	93
114	High K Capacitors and OFET Gate Dielectrics from Self-Assembled BaTiO ₃ and (Ba,Sr)TiO ₃ Nanocrystals in the Superparaelectric Limit. <i>Advanced Functional Materials</i> , 2010 , 20, 554-560	15.6	91
113	Smart textiles of MOF/g-CN nanospheres for the rapid detection/detoxification of chemical warfare agents. <i>Nanoscale Horizons</i> , 2017 , 2, 356-364	10.8	78

112	Cobalt ultrathin film catalyzed ethanol chemical vapor deposition of single-walled carbon nanotubes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11103-9	3.4	77
111	Hydrothermal Synthesis of Microporous Tin Sulfides Studied by Real-Time in Situ Energy-Dispersive X-ray Diffraction. <i>Chemistry of Materials</i> , 1996 , 8, 2102-2108	9.6	75
110	Single-molecule devices as scaffolding for multicomponent nanostructure assembly. <i>Nano Letters</i> , 2007 , 7, 1119-22	11.5	74
109	Oxidized g-C N Nanospheres as Catalytically Photoactive Linkers in MOF/g-C N Composite of Hierarchical Pore Structure. <i>Small</i> , 2017 , 13, 1601758	11	73
108	Comparison and Stability of CdSe Nanocrystals Covered with Amphiphilic Poly(Amidoamine) Dendrimers. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 10316-10321	3.4	73
107	Determination of the young's modulus of structurally defined carbon nanotubes. <i>Nano Letters</i> , 2008 , 8, 4158-61	11.5	70
106	Controlled placement of individual carbon nanotubes. <i>Nano Letters</i> , 2005 , 5, 1515-8	11.5	68
105	Magnetic resonance imaging of major histocompatibility class II expression in the renal medulla using immunotargeted superparamagnetic iron oxide nanoparticles. <i>ACS Nano</i> , 2008 , 2, 477-84	16.7	67
104	Orientated assembly of single-walled carbon nanotubes and applications. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3863		64
103	Time-Resolved in Situ X-ray Powder Diffraction Study of the Formation of Mesoporous Silicates. <i>Chemistry of Materials</i> , 1999 , 11, 1822-1832	9.6	59
102	Precise positioning of single-walled carbon nanotubes by ac dielectrophoresis. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 3173		57
101	Cobalt polypyrrole-carbon black (CoPPY/CB) electrocatalysts for the oxygen reduction reaction (ORR) in fuel cells: Composition and kinetic activity. <i>Applied Catalysis B: Environmental</i> , 2011 , 105, 50-60	21.8	55
100	Surface anisotropy and magnetic freezing of MnO nanoparticles. <i>Physical Review B</i> , 2007 , 75,	3.3	50
99	Reactive adsorption of mustard gas surrogate on zirconium (hydr)oxide/graphite oxide composites: the role of surface and chemical features. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1008-1019	13	49
98	Influence of Capping Groups on the Synthesis of Fe ₂ O ₃ Nanocrystals. <i>Journal of Materials Research</i> , 2004 , 19, 1208-1215	2.5	46
97	Effect of GO phase in Zn(OH) ₂ /GO composite on the extent of photocatalytic reactive adsorption of mustard gas surrogate. <i>Applied Catalysis B: Environmental</i> , 2016 , 183, 37-46	21.8	45
96	Addition, Suppression, and Inhibition in the Electrophoretic Deposition of Nanocrystal Mixture Films for CdSe Nanocrystals with Fe ₂ O ₃ and Au Nanocrystals. <i>Nano Letters</i> , 2003 , 3, 1603-1606	11.5	44
95	Modification of MCM-41 via ring opening of a strained[1]ferrocenophane. <i>Chemical Communications</i> , 1997 , 641-642	5.8	43

94	Additive-free photo-assisted selective partial oxidation at ambient conditions of 5-hydroxymethylfurfural by manganese (IV) oxide nanorods. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117803	21.8	42
93	Self-organizing high-density single-walled carbon nanotube arrays from surfactant suspensions. <i>Nanotechnology</i> , 2004 , 15, 1450-1454	3.4	42
92	Spectroscopic Probe of the Surface of Iron Oxide Nanocrystals. <i>Nano Letters</i> , 2002 , 2, 325-328	11.5	42
91	Time-resolved, in situ X-ray diffraction studies of intercalation in lamellar hosts. <i>Polyhedron</i> , 2000 , 19, 297-305	2.7	42
90	Zinc peroxide nanoparticles: Surface, chemical and optical properties and the effect of thermal treatment on the detoxification of mustard gas. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 429-440	21.8	40
89	Modeling of high-k dielectric nanocomposites. <i>Acta Mechanica</i> , 2014 , 225, 1197-1209	2.1	40
88	Photoactivity of g-C ₃ N ₄ /S-Doped Porous Carbon Composite: Synergistic Effect of Composite Formation. <i>ChemSusChem</i> , 2016 , 9, 795-9	8.3	39
87	Optimized Conditions for the Self-Organization of CdSe-Au and CdSe-CdSe Binary Nanoparticle Superlattices. <i>Chemistry of Materials</i> , 2008 , 20, 3594-3600	9.6	38
86	Key role of terminal hydroxyl groups and visible light in the reactive adsorption/catalytic conversion of mustard gas surrogate on zinc (hydr)oxides. <i>Applied Catalysis B: Environmental</i> , 2015 , 174-175, 96-104	21.8	37
85	Mesoporous Graphitic Carbon Nitride-Based Nanospheres as Visible-Light Active Chemical Warfare Agents Decontaminant. <i>ChemNanoMat</i> , 2016 , 2, 268-272	3.5	35
84	Functional oligomers for the control and fixation of spatial organization in nanoparticle assemblies. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3516-20	16.4	35
83	Metal Acetylacetonates as General Precursors for the Synthesis of Early Transition Metal Oxide Nanomaterials. <i>Journal of Nanomaterials</i> , 2007 , 2007, 1-7	3.2	35
82	EXAFS analysis of a chiral alkene polymerisation catalyst incorporated in the mesoporous silicate MCM-41. <i>Chemical Communications</i> , 1997 , 1905	5.8	33
81	Low-Temperature Raman Spectroscopy of Individual Single-Wall Carbon Nanotubes and Single-Layer Graphene. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13893-13900	3.8	33
80	Ultrasound-activated TiO ₂ /GO-based bifunctional photoreactive adsorbents for detoxification of chemical warfare agent surrogate vapors. <i>Chemical Engineering Journal</i> , 2020 , 395, 125099	14.7	32
79	Formation of an intermediate during the hydrothermal synthesis of ULM-5 studied using time-resolved, in situ X-ray powder diffraction. <i>Chemical Communications</i> , 1997 , 521-522	5.8	32
78	Formation of silica-surfactant mesophases studied by real-time in situ X-ray powder diffraction. <i>Journal of the Chemical Society Chemical Communications</i> , 1995 , 2423-2424		32
77	Barium titanate perovskite nanoparticles as a photoreactive medium for chemical warfare agent detoxification. <i>Journal of Colloid and Interface Science</i> , 2018 , 531, 233-244	9.3	31

76	Adsorption Dynamics of Alkanes on Single-Wall Carbon Nanotubes: A Molecular Beam Scattering Study. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 8043-8049	3.8	31
75	Degradation of endocrine disruptor, bisphenol-A, on an mixed oxidation state manganese oxide/modified graphite oxide composite: A role of carbonaceous phase. <i>Journal of Colloid and Interface Science</i> , 2019 , 539, 516-524	9.3	31
74	Analysis of interactions of mustard gas surrogate vapors with porous carbon textiles. <i>Chemical Engineering Journal</i> , 2019 , 362, 758-766	14.7	29
73	Photocatalytic Platforms for Removal of Ammonia from Gaseous and Aqueous Matrixes: Status and Challenges. <i>ACS Catalysis</i> , 2020 , 10, 8683-8716	13.1	29
72	Determination of the kinetics of crystallisation of gibbsite using time resolved in situ energy dispersive powder X-ray diffraction. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2355-2357		29
71	Highly Efficient Air Desulfurization on Self-Assembled Bundles of Copper Hydroxide Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31986-31994	9.5	28
70	Synthesis and Characterization of Ferrocenyl-Modified Mesoporous Silicates. <i>Chemistry of Materials</i> , 1998 , 10, 4088-4099	9.6	28
69	Magnetoelectricity in CoFe ₂ O ₄ nanocrystal-P(VDF-HFP) thin films. <i>Nanoscale Research Letters</i> , 2013 , 8, 374	5	27
68	Copper Hydroxyl Nitrate/Graphite Oxide Composite as Superoxidant for the Decomposition/Mineralization of Organophosphate-Based Chemical Warfare Agent Surrogate. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500215	4.6	27
67	Hollandites as a new class of multiferroics. <i>Scientific Reports</i> , 2014 , 4, 6203	4.9	26
66	Zinc (hydr)oxide/graphite oxide/AuNPs composites: role of surface features in H ₂ S reactive adsorption. <i>Journal of Colloid and Interface Science</i> , 2014 , 436, 296-305	9.3	26
65	Green and scalable production of colloidal perovskite nanocrystals and transparent sols by a controlled self-collection process. <i>Nanoscale</i> , 2015 , 7, 11766-76	7.7	25
64	Defectous UiO-66 MOF Nanocomposites as Reactive Media of Superior Protection against Toxic Vapors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14678-14689	9.5	25
63	Ferrihydrite deposited on cotton textiles as protection media against the chemical warfare agent surrogate (2-chloroethyl ethyl sulfide). <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4972-4981	13	24
62	Intrinsic dielectric frequency dependent spectrum of a single domain tetragonal BaTiO ₃ . <i>Journal of Applied Physics</i> , 2012 , 112, 014108	2.5	24
61	Detoxification of mustard gas surrogate on ZnO ₂ /g-C ₃ N ₄ composites: Effect of surface features synergy and day-night photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 119038	21.8	23
60	Effect of Ag containing (nano)particles on reactive adsorption of mustard gas surrogate on iron oxyhydroxide/graphite oxide composites under visible light irradiation. <i>Chemical Engineering Journal</i> , 2016 , 303, 123-136	14.7	23
59	Synthesis and dielectric properties of nanocrystalline oxide perovskites, [KNbO ₃] _{1-x} [BaNi _{0.5} Nb _{0.5} O ₃] _x , derived from potassium niobate KNbO ₃ by gel collection. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7989-7998	7.1	23

58	Layered double hydroxides/biochar composites as adsorbents for water remediation applications: recent trends and perspectives. <i>Journal of Cleaner Production</i> , 2021 , 284, 124755	10.3	23
57	Mixed CuFe and ZnFe (hydr)oxides as reactive adsorbents of chemical warfare agent surrogates. <i>Journal of Hazardous Materials</i> , 2017 , 329, 141-149	12.8	22
56	Mustard Gas Surrogate Interactions with Modified Porous Carbon Fabrics: Effect of Oxidative Treatment. <i>Langmuir</i> , 2017 , 33, 11475-11483	4	22
55	Interface structure, precursor rheology and dielectric properties of BaTiO ₃ /PVDF/BiPb nanocomposite films prepared from colloidal perovskite nanoparticles. <i>RSC Advances</i> , 2017 , 7, 32886-32892	3.7	22
54	Nanoengineered Electrodes for Biomass-Derived 5-Hydroxymethylfurfural Electrocatalytic Oxidation to 2,5-Furandicarboxylic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1970-1993	8.3	22
53	Comprehensive dielectric performance of bismuth acceptor doped BaTiO ₃ based nanocrystal thin film capacitors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21862		21
52	Wetite nanocrystals: Synthesis, structure and superlattice formation. <i>Journal of Materials Research</i> , 2007 , 22, 1987-1995	2.5	21
51	Mechanochemical Forces as a Synthetic Tool for Zero- and One-Dimensional Titanium Oxide-Based Nano-photocatalysts. <i>Topics in Current Chemistry</i> , 2019 , 378, 2	7.2	21
50	Stoichiometric Control over Ferroic Behavior in Ba(Ti _{1-x} Fex)O ₃ Nanocrystals. <i>Chemistry of Materials</i> , 2019 , 31, 1318-1335	9.6	21
49	Carbon Textiles Modified with Copper-Based Reactive Adsorbents as Efficient Media for Detoxification of Chemical Warfare Agents. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26965-26973	9.5	20
48	Single-walled carbon nanotubes as shadow masks for nanogap fabrication. <i>Applied Physics Letters</i> , 2006 , 88, 143124	3.4	20
47	Novel Approaches Utilizing Metal-Organic Framework Composites for the Extraction of Organic Compounds and Metal Traces from Fish and Seafood. <i>Molecules</i> , 2020 , 25,	4.8	19
46	Polyoxometalate hybrid catalyst for detection and photodecomposition of mustard gas surrogate vapors. <i>Applied Surface Science</i> , 2019 , 467-468, 428-438	6.7	19
45	Multiphonon Raman scattering from individual single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2007 , 98, 047402	7.4	18
44	Frequency-dependent ferroelectric behavior of BaMn ₃ Ti ₄ O _{14.25} at room temperature. <i>Applied Physics Letters</i> , 2015 , 107, 032904	3.4	17
43	When sonochemistry meets heterogeneous photocatalysis: designing a sonophotoreactor towards sustainable selective oxidation. <i>Green Chemistry</i> , 2020 , 22, 4896-4905	10	17
42	Monomer Derived Poly(Furfuryl)/BaTiO ₃ Nanocomposite Capacitors: Maximization of the Effective Permittivity Through Control at the Interface. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40324-40332	9.5	17
41	Synchrotron x-ray scattering of ZnO nanorods: Periodic ordering and lattice size. <i>Journal of Materials Research</i> , 2005 , 20, 1033-1041	2.5	17

40	Composite porous carbon textile with deposited barium titanate nanospheres as wearable protection medium against toxic vapors. <i>Chemical Engineering Journal</i> , 2020 , 384, 123280	14.7	17
39	Precise positioning of carbon nanotubes by ac dielectrophoresis using floating posts. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 86, 415-419	2.6	16
38	Imaging and Raman Spectroscopy of Individual Single-Wall Carbon Nanotubes on a Large Substrate. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11240-11245	3.8	15
37	Electron-Hole Pair Relaxation Dynamics in Binary Copper-Based Semiconductor Quantum Dots. <i>Journal of the Electrochemical Society</i> , 2005 , 152, G427	3.9	15
36	Design and development of TiO ₂ coated microflow reactor for photocatalytic partial oxidation of benzyl alcohol. <i>Molecular Catalysis</i> , 2020 , 486, 110884	3.3	14
35	Structure and performance of dielectric films based on self-assembled nanocrystals with a high dielectric constant. <i>Nanotechnology</i> , 2013 , 24, 415602	3.4	13
34	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2695-2708	7.2	12
33	1-to2-nm-wide nanogaps fabricated with single-walled carbon nanotube shadow masks. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 3213		12
32	Boosting the Photoactivity of Grafted Titania: Ultrasound-Driven Synthesis of a Multi-Phase Heterogeneous Nano-Architected Photocatalyst. <i>Advanced Functional Materials</i> , 2021 , 31, 2007115	15.6	12
31	New nonhydrolytic route to synthesize crystalline BaTiO ₃ nanocrystals with surface capping ligands. <i>Journal of Materials Research</i> , 2006 , 21, 3187-3195	2.5	11
30	Electrical transport measurements of nanotubes with known (n, m) indices. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3359-3364	1.3	10
29	Building MOF Nanocomposites with Oxidized Graphitic Carbon Nitride Nanospheres: The Effect of Framework Geometry on the Structural Heterogeneity. <i>Molecules</i> , 2019 , 24,	4.8	10
28	Horizontally-aligned carbon nanotubes arrays and their interactions with liquid crystal molecules: Physical characteristics and display applications. <i>AIP Advances</i> , 2012 , 2, 012110	1.5	9
27	Asymmetric leakage in (Ba, Sr)TiO ₃ nanoparticle/parylene-C composite capacitors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 35-38	2.6	9
26	Scrolled titanate nanosheet composites with reduced graphite oxide for photocatalytic and adsorptive removal of toxic vapors. <i>Chemical Engineering Journal</i> , 2021 , 415, 128907	14.7	8
25	Comparison of Methods for Surface Modification of Barium Titanate Nanoparticles for Aqueous Dispersibility: Toward Biomedical Utilization of Perovskite Oxides. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51135-51147	9.5	7
24	Polymer Nanocrystal Nanocomposites: Device Concepts in Capacitors and Multiferroics. <i>IEEE Nanotechnology Magazine</i> , 2020 , 19, 255-268	2.6	6
23	Excitation, Temperature, and Structural Dependence of Second-Order Raman Modes in Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16432-16438	3.8	5

22	Electrostatic Doping-Induced Phonon Shift of Metallic Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20118-20122	3.8	5
21	Formation of surfactant intercalates of MnPS3 as observed by real time in situ powder X-ray diffraction. <i>Chemical Communications</i> , 1996 , 2453	5.8	5
20	In Situ, Noncovalent Labeling and Stimulated Emission Depletion-Based Super-Resolution Imaging of Supramolecular Peptide Nanostructures. <i>ACS Nano</i> , 2020 , 14, 15056-15063	16.7	5
19	Vanadium oxide nanoparticles for methylene blue water remediation: Exploring the effect of physicochemical parameters by process modeling. <i>Journal of Molecular Liquids</i> , 2020 , 318, 114046	6	5
18	Self-Complementary Zwitterionic Peptides Direct Nanoparticle Assembly and Enable Enzymatic Selection of Endocytic Pathways. <i>Advanced Materials</i> , 2021 , e2104962	24	4
17	Ultra-small Downconverting Nanoparticle for Enhanced Cerenkov Imaging. <i>Nano Letters</i> , 2021 , 21, 4217-4224	42.4	4
16	Structure-property trends in a hollandite multiferroic by Fe doping: structural, magnetic and dielectric characterization of nanocrystalline BaMn ₃ Fe _x Ti ₄ O ₁₄ . <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7916-7927	7.1	3
15	Solid state 2H NMR study of the orientation and dynamics of cobaltocenium intercalated in the layered silicate LaponiteRD. <i>Journal of Materials Chemistry</i> , 1999 , 9, 1819-1824		3
14	Biomedical Applications of Lanthanide Nanomaterials, for Imaging, Sensing and Therapy.. <i>Nanotheranostics</i> , 2022 , 6, 184-194	5.6	3
13	Nanocomposite Capacitors in Power Electronics and Multiferroics: Prospects for the Future of Nanopackaging and Beyond. <i>IEEE Nanotechnology Magazine</i> , 2019 , 13, 8-17	1.7	3
12	Electrical Properties of New Hollandite Complex Oxide Nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 7074-80	1.3	2
11	Influence of electromigration on the maximum operating field of (Ba,Sr)TiO ₃ /polyimide composite capacitors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 060603	1.3	2
10	Hybrid magnetic nanoparticles derived from white disproportionation reactions at the nanoscale. <i>Hyperfine Interactions</i> , 2007 , 165, 239-245	0.8	2
9	Diameter Control and Photoluminescence of ZnO Nanorods from Trialkylamines. <i>Journal of Nanomaterials</i> , 2007 , 2007, 1-4	3.2	2
8	Purcell Effect of Plasmonic Surface Lattice Resonances and Its Influence on Energy Transfer. <i>ACS Photonics</i> , 2021 , 8, 2211-2219	6.3	2
7	Ultrasound-assisted decoration of CuOx nanoclusters on TiO ₂ nanoparticles for additive free photocatalytic hydrogen production and biomass valorization by selective oxidation. <i>Molecular Catalysis</i> , 2021 , 514, 111664	3.3	2
6	Synthesis and Characterization of Nanostructured Nickel Diselenide NiSe ₂ from the Decomposition of Nickel Acetate, (CH ₃ CO ₂) ₂ Ni. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-7	3.2	1
5	Fabrication and Characterization of CoFe ₂ O ₄ -Polymer Nanocomposite Thin-Films. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1507, 1		1

4	Thin-film superparamagnetic resonance in a Fe ₂ O ₃ nanoparticle array. <i>Journal of Applied Physics</i> , 2008 , 103, 07D510	2.5	1
3	The Use of in-situ Powder Diffraction in the Study of Intercalation and Hydrothermal Reaction Kinetics. <i>Materials Science Forum</i> , 1998 , 278-281, 367-378	0.4	1
2	Magnetic and dielectric property control in the multivalent nanoscale perovskite EuBaTiO. <i>Nanoscale</i> , 2021 , 13, 10365-10384	7.7	1
1	Response to Comment on High K Capacitors and OFET Gate Dielectrics from Self-Assembled BaTiO ₃ and (Ba,Sr)TiO ₃ Nanocrystals in the Superparaelectric Limit On the Superparaelectric State in BaTiO ₃ Nanocrystals <i>Advanced Functional Materials</i> , 2011 , 21, 3212-3213	15.6	