

# Kevin M Ryan

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8938519/kevin-m-ryan-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

148  
papers

5,265  
citations

40  
h-index

68  
g-index

161  
ext. papers

5,930  
ext. citations

8.1  
avg, IF

6.06  
L-index

#	Paper	IF	Citations
148	Compound Copper Chalcogenide Nanocrystals. <i>Chemical Reviews</i> , <b>2017</b> , 117, 5865-6109	68.1	493
147	Colloidal synthesis of wurtzite Cu <sub>2</sub> ZnSnS <sub>4</sub> nanorods and their perpendicular assembly. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2910-3	16.4	351
146	Electric-field-assisted assembly of perpendicularly oriented nanorod superlattices. <i>Nano Letters</i> , <b>2006</b> , 6, 1479-82	11.5	333
145	High-performance germanium nanowire-based lithium-ion battery anodes extending over 1000 cycles through in situ formation of a continuous porous network. <i>Nano Letters</i> , <b>2014</b> , 14, 716-23	11.5	288
144	Advances in the Application of Silicon and Germanium Nanowires for High-Performance Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 5696-704	24	137
143	Preparation of ordered mesoporous ceria with enhanced thermal stability. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 1207-1212		117
142	Self-assembly of vertically aligned nanorod supercrystals using highly oriented pyrolytic graphite. <i>Nano Letters</i> , <b>2007</b> , 7, 2480-5	11.5	107
141	Tailoring the Optical Properties of Silicon Nanowire Arrays through Strain. <i>Nano Letters</i> , <b>2002</b> , 2, 811-816	11.5	94
140	Bio-derived Carbon Nanofibres from Lignin as High-Performance Li-Ion Anode Materials. <i>ChemSusChem</i> , <b>2019</b> , 12, 4516-4521	8.3	90
139	Compositionally tunable photoluminescence emission in Cu <sub>2</sub> ZnSn(S(1-x)Se(x)) <sub>4</sub> nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 9120-4	16.4	88
138	Phase-transition-driven growth of compound semiconductor crystals from ordered metastable nanorods. <i>Nature Communications</i> , <b>2014</b> , 5, 3133	17.4	87
137	Spontaneous room temperature elongation of CdS and Ag <sub>2</sub> S nanorods via oriented attachment. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 12250-7	16.4	85
136	Three dimensional architectures of ultra-high density semiconducting nanowires deposited on chip. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 6284-8	16.4	82
135	Controlled semiconductor nanorod assembly from solution: influence of concentration, charge and solvent nature. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 1562-1569		72
134	Synthesis of Tin Catalyzed Silicon and Germanium Nanowires in a Solvent Vapor System and Optimization of the Seed/Nanowire Interface for Dual Lithium Cycling. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 1816-1822	9.6	72
133	Synthesis and characterization of dimensionally ordered semiconductor nanowires within mesoporous silica. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 7010-6	16.4	72
132	Complete colloidal synthesis of Cu <sub>2</sub> SnSe <sub>4</sub> nanocrystals with crystal phase and shape control. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 7954-60	16.4	69

131	Assembly of CuIn(1-x)Ga(x)S <sub>2</sub> nanorods into highly ordered 2D and 3D superstructures. <i>ACS Nano</i> , <b>2012</b> , 6, 6977-83	16.7	69
130	Compact strain-sensitive flexible photonic crystals for sensors. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 101902	3.4	68
129	Nanowire Heterostructures Comprising Germanium Stems and Silicon Branches as High-Capacity Li-Ion Anodes with Tunable Rate Capability. <i>ACS Nano</i> , <b>2015</b> , 9, 7456-65	16.7	67
128	Colloidal synthesis of Cu <sub>2</sub> SnSe <sub>3</sub> tetrapod nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 7835-8	16.4	66
127	Copper Sulfide (Cu <sub>x</sub> S) Nanowire-in-Carbon Composites Formed from Direct Sulfurization of the Metal-Organic Framework HKUST-1 and Their Use as Li-Ion Battery Cathodes. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800587	15.6	59
126	Axial Si-Ge Heterostructure Nanowires as Lithium-Ion Battery Anodes. <i>Nano Letters</i> , <b>2018</b> , 18, 5569-5575	11.5	57
125	Understanding the influence of electrolyte additives on the electrochemical performance and morphology evolution of silicon nanowire based lithium-ion battery anodes. <i>Journal of Power Sources</i> , <b>2017</b> , 359, 601-610	8.9	56
124	Control of Pore Morphology in Mesoporous Silicas Synthesized from Triblock Copolymer Templates. <i>Langmuir</i> , <b>2002</b> , 18, 4996-5001	4	56
123	Highly ordered nanorod assemblies extending over device scale areas and in controlled multilayers by electrophoretic deposition. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 1608-15	3.4	55
122	Behavior of Germanium and Silicon Nanowire Anodes with Ionic Liquid Electrolytes. <i>ACS Nano</i> , <b>2017</b> , 11, 5933-5943	16.7	54
121	Atomically abrupt silicon-germanium axial heterostructure nanowires synthesized in a solvent vapor growth system. <i>Nano Letters</i> , <b>2013</b> , 13, 1675-80	11.5	54
120	Centimetre scale assembly of vertically aligned and close packed semiconductor nanorods from solution. <i>Chemical Communications</i> , <b>2009</b> , 6421-3	5.8	52
119	High Density Germanium Nanowire Growth Directly from Copper Foil by Self-Induced Solid Seeding. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4838-4843	9.6	51
118	Directing semiconductor nanorod assembly into 1D or 2D supercrystals by altering the surface charge. <i>Chemical Communications</i> , <b>2010</b> , 46, 7193-5	5.8	49
117	Direct Synthesis of Alloyed SiGe Nanowires for Performance-Tunable Lithium Ion Battery Anodes. <i>ACS Nano</i> , <b>2017</b> , 11, 10088-10096	16.7	48
116	Systematic Study into the Synthesis and Shape Development in Colloidal CuIn <sub>x</sub> Ga <sub>1-x</sub> S <sub>2</sub> Nanocrystals. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 653-661	9.6	47
115	Conductive films of ordered nanowire arrays. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 585		45
114	Colloidal Cu <sub>2</sub> ZnSn(SSe) <sub>4</sub> (CZTSSe) Nanocrystals: Shape and Crystal Phase Control to Form Dots, Arrows, Ellipsoids, and Rods. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4742-4748	9.6	44

113	A rapid, solvent-free protocol for the synthesis of germanium nanowire lithium-ion anodes with a long cycle life and high rate capability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 18800-7	9.5	44
112	High Density Growth of Indium seeded Silicon Nanowires in the Vapor phase of a High Boiling Point Solvent. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2204-2210	9.6	43
111	Pore Expansion in Mesoporous Silicas Using Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 424-427	9.6	43
110	Insight into the Role of Additives in Controlling Polymorphic Outcome: A CO <sub>2</sub> -Antisolvent Crystallization Process of Carbamazepine. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 4544-4553	3.5	40
109	Insight into the 3D architecture and quasicrystal symmetry of multilayer nanorod assemblies from Moiré Interference patterns. <i>ACS Nano</i> , <b>2012</b> , 6, 3339-45	16.7	40
108	Solution Synthesis and Assembly of Wurtzite-Derived CuInZnS Nanorods with Tunable Composition and Band Gap. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1517-1523	9.6	37
107	Gold tip formation on perpendicularly aligned semiconductor nanorod assemblies. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5218		36
106	A facile phosphine-free colloidal synthesis of Cu <sub>2</sub> SnS <sub>3</sub> and Cu <sub>2</sub> ZnSnS <sub>4</sub> nanorods with a controllable aspect ratio. <i>Chemical Communications</i> , <b>2015</b> , 51, 13810-3	5.8	35
105	Size controlled gold tip growth onto InP nanorods. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7875		35
104	The formation of dimensionally ordered germanium nanowires within mesoporous silica. <i>Chemical Physics Letters</i> , <b>2001</b> , 343, 1-6	2.5	35
103	Measurements of the lattice constant of ceria when doped with lanthana and praseodymia - the possibility of local defect ordering and the observation of extensive phase separation. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, L49-L58	1.8	34
102	A facile spin-cast route for cation exchange of multilayer perpendicularly-aligned nanorod assemblies. <i>Nanoscale</i> , <b>2011</b> , 3, 4580-3	7.7	33
101	Pd clusters supported on amorphous, low-porosity carbon spheres for hydrogen production from formic acid. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 8719-26	9.5	32
100	Complete study of the composition and shape evolution in the synthesis of Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) semiconductor nanocrystals. <i>CrystEngComm</i> , <b>2015</b> , 17, 6914-6922	3.3	31
99	Solution phase synthesis of silicon and germanium nanowires. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 4996	7.1	31
98	Block copolymer mediated stabilization of sub-5 nm superparamagnetic nickel nanoparticles in an aqueous medium. <i>Nanotechnology</i> , <b>2009</b> , 20, 415603	3.4	31
97	A Copper Silicide Nanofoam Current Collector for Directly Grown Si Nanowire Networks and their Application as Lithium-Ion Anodes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003278	15.6	31
96	Perpendicular growth of catalyst-free germanium nanowire arrays. <i>Chemical Communications</i> , <b>2011</b> , 47, 3843-5	5.8	29

95	Growth of Crystalline Copper Silicide Nanowires in High Yield within a High Boiling Point Solvent System. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 4319-4325	9.6	28
94	Role of Defects and Growth Directions in the Formation of Periodically Twinned and Kinked Unseeded Germanium Nanowires. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 3266-3272	3.5	27
93	Core-shell tin oxide, indium oxide, and indium tin oxide nanoparticles on silicon with tunable dispersion: electrochemical and structural characteristics as a hybrid Li-ion battery anode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 8195-202	9.5	26
92	Supercritical fluid preparation of copper nanotubes and nanowires using mesoporous templates. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, 8303-8314	1.8	24
91	Highly Efficient Oxygen Evolution Reaction Enabled by Phosphorus Doping of the Fe Electronic Structure in Iron-Nickel Selenide Nanosheets. <i>Advanced Science</i> , <b>2021</b> , 8, e2101775	13.6	24
90	Copper Silicide Nanowires as Hosts for Amorphous Si Deposition as a Route to Produce High Capacity Lithium-Ion Battery Anodes. <i>Nano Letters</i> , <b>2019</b> , 19, 8829-8835	11.5	22
89	A multi-rate kinetic model for spontaneous oriented attachment of CdS nanorods. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 12430-5	3.6	22
88	Selective Phase Transformation of Wurtzite Cu <sub>2</sub> ZnSn(SSe) <sub>4</sub> (CZTSSe) Nanocrystals into Zinc-Blende and Kesterite Phases by Solution and Solid State Transformations. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5055-5062	9.6	21
87	Solvent Vapor Growth of Axial Heterostructure Nanowires with Multiple Alternating Segments of Silicon and Germanium. <i>Nano Letters</i> , <b>2016</b> , 16, 374-80	11.5	21
86	Colloidal synthesis of homogeneously alloyed CdSe(x)S(1-x) nanorods with compositionally tunable photoluminescence. <i>Chemical Communications</i> , <b>2013</b> , 49, 10293-5	5.8	21
85	From batch to continuous - New opportunities for supercritical CO technology in pharmaceutical manufacturing. <i>European Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 137, 104971	5.1	20
84	Occurrence of Polytypism in Compound Colloidal Metal Chalcogenide Nanocrystals, Opportunities, and Challenges. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3141-3148	6.4	20
83	Metal surface nucleated supercritical fluid solid growth of Si and Ge/SiO <sub>x</sub> core-shell nanowires. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 135-144		20
82	Assembling Ordered Nanorod Superstructures and Their Application as Microcavity Lasers. <i>Scientific Reports</i> , <b>2017</b> , 7, 43884	4.9	19
81	Tunable Core-Shell Nanowire Active Material for High Capacity Li-Ion Battery Anodes Comprised of PECVD Deposited aSi on Directly Grown Ge Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19372-19380	9.5	19
80	Assembly of binary, ternary and quaternary compound semiconductor nanorods: From local to device scale ordering influenced by surface charge. <i>CrystEngComm</i> , <b>2014</b> , 16, 9446-9454	3.3	19
79	Size controlled growth of germanium nanorods and nanowires by solution pyrolysis directly on a substrate. <i>Chemical Communications</i> , <b>2012</b> , 48, 5446-8	5.8	19
78	The Role of Texturing and Densification on Optical Transmittance of Hydroxyapatite Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 3773-3777	3.8	19

77	The evolution of pseudo-spherical silicon nanocrystals to tetrahedra, mediated by phosphonic acid surfactants. <i>Nanotechnology</i> , <b>2009</b> , 20, 275605	3.4	19
76	Synthesis and dimensional control of CsPbBr perovskite nanocrystals using phosphorous based ligands. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 174702	3.9	18
75	Enhancing the performance of germanium nanowire anodes for Li-ion batteries by direct growth on textured copper. <i>Chemical Communications</i> , <b>2019</b> , 55, 7780-7783	5.8	17
74	Fabrication of Noble metal-semiconductor hybrid nanostructures using phase transfer. <i>Nano Research</i> , <b>2013</b> , 6, 121-130	10	17
73	Epitaxial growth of visible to infra-red transparent conducting In <sub>2</sub> O <sub>3</sub> nanodot dispersions and reversible charge storage as a Li-ion battery anode. <i>Nanotechnology</i> , <b>2013</b> , 24, 065401	3.4	17
72	Water dispersible semiconductor nanorod assemblies via a facile phase transfer and their application as fluorescent biomarkers. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8974		17
71	Periodic Binary Si:Ti, Si:Al Mixed Macroporous Oxides with Ultrahigh Heteroatom Loading: A Facile Sol-Gel Approach. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1434-1440	9.6	17
70	Alternative anodes for low temperature lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 14172-14213	13	17
69	Controlling Polymorphism of Carbamazepine Nanoparticles in a Continuous Supercritical-CO <sub>2</sub> -Assisted Spray Drying Process. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 3755-3767	3.5	16
68	Solution synthesis of lead seeded germanium nanowires and branched nanowire networks and their application as Li-ion battery anodes. <i>Nanotechnology</i> , <b>2017</b> , 28, 255603	3.4	15
67	Aligned Copper Zinc Tin Sulfide Nanorods as Lithium-Ion Battery Anodes with High Specific Capacities. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 20090-20098	3.8	15
66	An ac susceptibility study in capped Ni/Ni(OH) <sub>2</sub> core-shell nanoassemblies: dual peak observations. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 325004	3	15
65	Close-Packed Gold-Nanocrystal Assemblies Deposited with Complete Selectivity into Lithographic Trenches. <i>Advanced Materials</i> , <b>2008</b> , 20, 4745-4750	24	15
64	Progress and perspectives on alloying-type anode materials for advanced potassium-ion batteries. <i>Materials Today</i> , <b>2021</b> , 48, 241-241	21.8	14
63	Compositionally Tunable Photoluminescence Emission in Cu <sub>2</sub> ZnSn(S <sub>1-x</sub> Se <sub>x</sub> ) <sub>4</sub> Nanocrystals. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 9290-9294	3.6	13
62	Colloidal synthesis of Cu <sub>2</sub> SnSe <sub>3</sub> nanocrystals with structure induced shape evolution. <i>CrystEngComm</i> , <b>2016</b> , 18, 3161-3169	3.3	13
61	Two-Dimensional SnSe Nanonetworks: Growth and Evaluation for Li-Ion Battery Applications. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6602-6610	6.1	12
60	Crystallization of Semiconductor Nanorods into Perfectly Faceted Hexagonal Superstructures. <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 624-629	3.1	12

59	Complete assembly of Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) nanorods at substrate interfaces using a combination of self and directed organisation. <i>Chemical Communications</i> , <b>2016</b> , 52, 11587-90	5.8	12
58	Low temperature solution synthesis of silicon, germanium and Si-Ge axial heterostructures in nanorod and nanowire form. <i>Chemical Communications</i> , <b>2018</b> , 54, 5728-5731	5.8	12
57	Electrophoretic Deposition of Tin Sulfide Nanocubes as High-Performance Lithium-Ion Battery Anodes. <i>ChemElectroChem</i> , <b>2019</b> , 6, 3049-3056	4.3	11
56	Protein immobilisation on perpendicularly aligned gold tipped nanorod assemblies. <i>Chemical Communications</i> , <b>2011</b> , 47, 2655-7	5.8	11
55	Silver tip formation on colloidal CdSe nanorods by a facile phase transfer protocol. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6815		11
54	The synthesis of matrices of embedded semiconducting nanowires. <i>Faraday Discussions</i> , <b>2004</b> , 125, 311-26; discussion 391-407	3.6	11
53	Direct Growth of Si, Ge, and Si-Ge Heterostructure Nanowires Using Electroplated Zn: An Inexpensive Seeding Technique for Li-Ion Alloying Anodes. <i>Small</i> , <b>2021</b> , 17, e2005443	11	11
52	Synthesis of silicon-germanium axial nanowire heterostructures in a solvent vapor growth system using indium and tin catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 6919-24	3.6	10
51	Recent advances in solid-state polymer electrolytes and innovative ionic liquids based polymer electrolyte systems. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 21, 188-191	7.2	10
50	Promoting cell proliferation using water dispersible germanium nanowires. <i>PLoS ONE</i> , <b>2014</b> , 9, e108006	3.7	10
49	Co-crystal polymorphic control by nanodroplet and electrical confinement. <i>CrystEngComm</i> , <b>2019</b> , 21, 2845-2848	3.3	9
48	Influence of Carbonate-Based Additives on the Electrochemical Performance of Si NW Anodes Cycled in an Ionic Liquid Electrolyte. <i>Nano Letters</i> , <b>2020</b> , 20, 7011-7019	11.5	9
47	Investigation into the Selenization Mechanisms of Wurtzite CZTS Nanorods. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7117-7125	9.5	9
46	Dense Silicon Nanowire Networks Grown on a Stainless-Steel Fiber Cloth: A Flexible and Robust Anode for Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2021</b> , e2105917	24	9
45	Alloying Germanium Nanowire Anodes Dramatically Outperform Graphite Anodes in Full-Cell Chemistries over a Wide Temperature Range. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1793-1804	6.1	9
44	Layered Bimetallic Metal-Organic Material Derived Cu <sub>2</sub> SnS <sub>3</sub> /SnS <sub>2</sub> /C Composite for Anode Applications in Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2018</b> , 5, 3764-3770	4.3	9
43	The selective synthesis of nickel germanide nanowires and nickel germanide seeded germanium nanowires within a solvent vapour growth system. <i>CrystEngComm</i> , <b>2017</b> , 19, 2072-2078	3.3	8
42	Colloidal WSe nanocrystals as anodes for lithium-ion batteries. <i>Nanoscale</i> , <b>2020</b> , 12, 22307-22316	7.7	8

41	Direct visualization of phase-matched efficient second harmonic and broadband sum frequency generation in hybrid plasmonic nanostructures. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 180	16.7	8
40	A Nanowire Nest Structure Comprising Copper Silicide and Silicon Nanowires for Lithium-Ion Battery Anodes with High Areal Loading. <i>Small</i> , <b>2021</b> , 17, e2102333	11	8
39	Temperature controlled shape evolution of iron oxide nanostructures in HMTA media. <i>RSC Advances</i> , <b>2017</b> , 7, 26328-26334	3.7	7
38	Production and isolation of pharmaceutical drug nanoparticles. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 603, 120708	6.5	7
37	Formation of reworkable nanocomposite adhesives by dielectric heating of epoxy resin embedded Fe <sub>3</sub> O <sub>4</sub> hollow spheres. <i>CrystEngComm</i> , <b>2016</b> , 18, 6096-6101	3.3	7
36	Insights into the Electrophoretic Deposition of Colloidal II-VI Nanorods: Optimization for Vertically and Horizontally Aligned Assemblies. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, D3019-D3024	3.9	6
35	Heteroaggregation assisted wet synthesis of core-shell silver-silica-cadmium selenide nanowires. <i>Nanoscale</i> , <b>2016</b> , 8, 1200-9	7.7	6
34	Electrophoretic deposition of poly(3-decylthiophene) onto gold-mounted cadmium selenide nanorods. <i>Langmuir</i> , <b>2011</b> , 27, 13506-13	4	6
33	Insights into Nucleation and Growth of Colloidal Quaternary Nanocrystals by Multimodal X-ray Analysis. <i>ACS Nano</i> , <b>2021</b> , 15, 6439-6447	16.7	6
32	Unraveling the Link between Solvent-Mediated Proton Transfer and the Salt Formation of Saccharin and Sulfamethazine. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 613-619	3.5	6
31	Investigating Process Variables and Additive Selection To Optimize Polymorphic Control of Carbamazepine in a CO <sub>2</sub> Antisolvent Crystallization Process. <i>Organic Process Research and Development</i> , <b>2020</b> , 24, 1006-1017	3.9	6
30	High density and patternable growth of silicon, germanium and alloyed SiGe nanowires by a rapid anneal protocol. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 7455-7462	7.1	5
29	Complete synthesis of germanium nanocrystal encrusted carbon colloids in supercritical CO <sub>2</sub> and their superhydrophobic properties. <i>Langmuir</i> , <b>2011</b> , 27, 11166-73	4	5
28	Synthesis of Curved CuIn <sub>1-x</sub> Gax(S <sub>1-y</sub> Se <sub>y</sub> ) <sub>2</sub> Nanocrystals and Complete Characterization of Their Diffraction Contrast Effects. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8679-8689	9.6	5
27	Electrophoretic Deposition of Spherical and Rod-Shaped Nanocrystals into Close Packed Superlattices. <i>ECS Transactions</i> , <b>2009</b> , 19, 209-219	1	4
26	Metal chalcogenide semiconductor nanocrystals synthesized from ion-conducting seeds and their applications. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 13868-13895	7.1	4
25	Synthesis and Characterization of CuZnSe <sub>2</sub> Nanocrystals in Wurtzite, Zinc Blende, and Core-Shell Polytypes. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 10085-10093	9.6	4
24	Generation and physicochemical characterization of posaconazole cocrystals using Gas Antisolvent (GAS) and Supercritical Solvent (CSS) methods. <i>Journal of Supercritical Fluids</i> , <b>2021</b> , 170, 105134	4.2	4



23	Tin-Based Oxide, Alloy, and Selenide Li-Ion Battery Anodes Derived from a Bimetallic Metal/Organic Material. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 1180-1189	3.8	4
22	Highlighting the Importance of Full-Cell Testing for High Performance Anode Materials Comprising Li Alloying Nanowires. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A2784-A2790	3.9	3
21	Rechargeable Li-Ion Battery Anode of Indium Oxide with Visible to Infra-Red Transparency. <i>ECS Transactions</i> , <b>2013</b> , 53, 53-61	1	3
20	Development and validation of a two-dimensional population balance model for a supercritical CO <sub>2</sub> antisolvent batch crystallization process. <i>Advanced Powder Technology</i> , <b>2020</b> , 31, 3191-3204	4.6	3
19	Linear heterostructured NiSi/Si nanowires with abrupt interfaces synthesised in solution. <i>Nanoscale</i> , <b>2018</b> , 10, 19182-19187	7.7	3
18	Amorphization driven Na-alloying in SixGe1-x alloy nanowires for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 20626-20634	13	3
17	Surface plasmon propagation enhancement via bowtie antenna incorporation in Au-mica block waveguides. <i>Applied Optics</i> , <b>2018</b> , 57, E50-E56	1.7	2
16	The Role of Software Engineering in Future Automotive Systems Development. <i>SAE International Journal of Passenger Cars - Electronic and Electrical Systems</i> , <b>2008</b> , 1, 544-552		2
15	Cortisone and cortisol break hydrogen-bonding rules to make a drug-prodrug solid solution. <i>IUCrJ</i> , <b>2020</b> , 7, 1124-1130	4.7	2
14	Evolution of Hierarchically Layered Cu-Rich Silicide Nanoarchitectures. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 6677-6682	3.5	2
13	Multimodal surface analyses of chemistry and structure of biominerals in rodent pineal gland concretions. <i>Applied Surface Science</i> , <b>2019</b> , 469, 378-386	6.7	2
12	GREENLION Project: Advanced Manufacturing Processes for Low Cost Greener Li-Ion Batteries. <i>Lecture Notes in Mobility</i> , <b>2015</b> , 45-60	0.5	1
11	Silver Tip Formation on Colloidal CdSe Nanorods by a Facile Phase Transfer Protocol. <i>Springer Proceedings in Physics</i> , <b>2013</b> , 21-31	0.2	1
10	Precursor-Mediated Linear- and Branched-Polytypism Control in Cu <sub>2</sub> ZnSnSe <sub>4</sub> Colloidal Nanocrystals Using a Dual-Injection Method. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 7254-7262	9.6	1
9	Common Battery Anode Testing Protocols Are Not Suitable for New Combined Alloying and Conversion Materials. <i>ChemElectroChem</i> , <b>2018</b> , 5, 3757-3763	4.3	1
8	Solid-State and Particle Size Control of Pharmaceutical Cocrystals using Atomization-Based Techniques. <i>International Journal of Pharmaceutics</i> , <b>2022</b> , 121798	6.5	1
7	Temperature induced diameter variation of silicon nanowires a liquid-solid phase transition in the Zn seed. <i>Chemical Communications</i> , <b>2021</b> , 57, 12504-12507	5.8	0
6	Pharmaceutical nanoparticle isolation using CO-assisted dynamic bed coating. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 592, 120032	6.5	0

5	Silicon Nanowire Growth on Carbon Cloth for Flexible Li-ion Battery Anodes. <i>Materials Today Energy</i> , <b>2022</b> , 101030	7	o
4	Production of biopharmaceutical dried-powders using supercritical CO2 technology. <i>Journal of Supercritical Fluids</i> , <b>2022</b> , 187, 105645	4.2	o
3	Controlling morphological, orientational and material properties of mesoporous aluminosilicate films: enabling supercritical fluid deposition of perpendicularly ordered nanowire arrays. <i>Studies in Surface Science and Catalysis</i> , <b>2005</b> , 303-314	1.8	
2	Input coupling enhancement through antenna incorporation in thin Au-mica trench waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 2954	1.7	
1	Water Dispersible Semiconductor Nanorod Assemblies Via a Facile Phase Transfer and Their Application as Fluorescent Biomarkers. <i>Springer Proceedings in Physics</i> , <b>2013</b> , 95-110	0.2	