

Kevin M Ryan

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8938519/kevin-m-ryan-publications-by-year.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	Silicon Nanowire Growth on Carbon Cloth for Flexible Li-ion Battery Anodes. <i>Materials Today Energy</i> , 2022 , 101030	7	0
147	Solid-State and Particle Size Control of Pharmaceutical Cocrystals using Atomization-Based Techniques.. <i>International Journal of Pharmaceutics</i> , 2022 , 121798	6.5	1
146	Production of biopharmaceutical dried-powders using supercritical CO2 technology. <i>Journal of Supercritical Fluids</i> , 2022 , 187, 105645	4.2	0
145	Dense Silicon Nanowire Networks Grown on a Stainless-Steel Fiber Cloth: A Flexible and Robust Anode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021 , e2105917	24	9
144	Temperature induced diameter variation of silicon nanowires a liquid-solid phase transition in the Zn seed. <i>Chemical Communications</i> , 2021 , 57, 12504-12507	5.8	0
143	Insights into Nucleation and Growth of Colloidal Quaternary Nanocrystals by Multimodal X-ray Analysis. <i>ACS Nano</i> , 2021 , 15, 6439-6447	16.7	6
142	Progress and perspectives on alloying-type anode materials for advanced potassium-ion batteries. <i>Materials Today</i> , 2021 , 48, 241-241	21.8	14
141	Production and isolation of pharmaceutical drug nanoparticles. <i>International Journal of Pharmaceutics</i> , 2021 , 603, 120708	6.5	7
140	Highly Efficient Oxygen Evolution Reaction Enabled by Phosphorus Doping of the Fe Electronic Structure in Iron-Nickel Selenide Nanosheets. <i>Advanced Science</i> , 2021 , 8, e2101775	13.6	24
139	A Nanowire Nest Structure Comprising Copper Silicide and Silicon Nanowires for Lithium-Ion Battery Anodes with High Areal Loading. <i>Small</i> , 2021 , 17, e2102333	11	8
138	Generation and physicochemical characterization of posaconazole cocrystals using Gas Antisolvent (GAS) and Supercritical Solvent (CSS) methods. <i>Journal of Supercritical Fluids</i> , 2021 , 170, 105134	4.2	4
137	Pharmaceutical nanoparticle isolation using CO-assisted dynamic bed coating. <i>International Journal of Pharmaceutics</i> , 2021 , 592, 120032	6.5	0
136	Tin-Based Oxide, Alloy, and Selenide Li-Ion Battery Anodes Derived from a Bimetallic Metal/Organic Material. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1180-1189	3.8	4
135	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> , 2021 , 17, e2005443	11	11
134	Alternative anodes for low temperature lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14172-14213	13	17
133	Alloying Germanium Nanowire Anodes Dramatically Outperform Graphite Anodes in Full-Cell Chemistries over a Wide Temperature Range. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1793-1804	6.1	9
132	Amorphization driven Na-alloying in SixGe1-x alloy nanowires for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20626-20634	13	3

131	Synthesis and dimensional control of CsPbBr perovskite nanocrystals using phosphorous based ligands. <i>Journal of Chemical Physics</i> , 2020 , 152, 174702	3.9	18
130	Two-Dimensional SnSe Nanonetworks: Growth and Evaluation for Li-Ion Battery Applications. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6602-6610	6.1	12
129	Influence of Carbonate-Based Additives on the Electrochemical Performance of Si NW Anodes Cycled in an Ionic Liquid Electrolyte. <i>Nano Letters</i> , 2020 , 20, 7011-7019	11.5	9
128	Recent advances in solid-state polymer electrolytes and innovative ionic liquids based polymer electrolyte systems. <i>Current Opinion in Electrochemistry</i> , 2020 , 21, 188-191	7.2	10
127	Cortisone and cortisol break hydrogen-bonding rules to make a drug-prodrug solid solution. <i>IUCrJ</i> , 2020 , 7, 1124-1130	4.7	2
126	Colloidal WSe nanocrystals as anodes for lithium-ion batteries. <i>Nanoscale</i> , 2020 , 12, 22307-22316	7.7	8
125	Development and validation of a two-dimensional population balance model for a supercritical CO ₂ antisolvent batch crystallization process. <i>Advanced Powder Technology</i> , 2020 , 31, 3191-3204	4.6	3
124	A Copper Silicide Nanofoam Current Collector for Directly Grown Si Nanowire Networks and their Application as Lithium-Ion Anodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2003278	15.6	31
123	Direct visualization of phase-matched efficient second harmonic and broadband sum frequency generation in hybrid plasmonic nanostructures. <i>Light: Science and Applications</i> , 2020 , 9, 180	16.7	8
122	Evolution of Hierarchically Layered Cu-Rich Silicide Nanoarchitectures. <i>Crystal Growth and Design</i> , 2020 , 20, 6677-6682	3.5	2
121	Precursor-Mediated Linear- and Branched-Polytypism Control in Cu ₂ ZnSnSe ₄ Colloidal Nanocrystals Using a Dual-Injection Method. <i>Chemistry of Materials</i> , 2020 , 32, 7254-7262	9.6	1
120	Metal chalcogenide semiconductor nanocrystals synthesized from ion-conducting seeds and their applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13868-13895	7.1	4
119	Investigating Process Variables and Additive Selection To Optimize Polymorphic Control of Carbamazepine in a CO ₂ Antisolvent Crystallization Process. <i>Organic Process Research and Development</i> , 2020 , 24, 1006-1017	3.9	6
118	Highlighting the Importance of Full-Cell Testing for High Performance Anode Materials Comprising Li Alloying Nanowires. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2784-A2790	3.9	3
117	From batch to continuous - New opportunities for supercritical CO ₂ technology in pharmaceutical manufacturing. <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 137, 104971	5.1	20
116	Controlling Polymorphism of Carbamazepine Nanoparticles in a Continuous Supercritical-CO ₂ -Assisted Spray Drying Process. <i>Crystal Growth and Design</i> , 2019 , 19, 3755-3767	3.5	16
115	Enhancing the performance of germanium nanowire anodes for Li-ion batteries by direct growth on textured copper. <i>Chemical Communications</i> , 2019 , 55, 7780-7783	5.8	17
114	Electrophoretic Deposition of Tin Sulfide Nanocubes as High-Performance Lithium-Ion Battery Anodes. <i>ChemElectroChem</i> , 2019 , 6, 3049-3056	4.3	11

113	Co-crystal polymorphic control by nanodroplet and electrical confinement. <i>CrystEngComm</i> , 2019 , 21, 2845-2848	3.3	9
112	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 & Interfaces</i> , 2019 , 11, 19372-19380	9.5	19
111	Bio-derived Carbon Nanofibres from Lignin as High-Performance Li-Ion Anode Materials. <i>ChemSusChem</i> , 2019 , 12, 4516-4521	8.3	90
110	Copper Silicide Nanowires as Hosts for Amorphous Si Deposition as a Route to Produce High Capacity Lithium-Ion Battery Anodes. <i>Nano Letters</i> , 2019 , 19, 8829-8835	11.5	22
109	Input coupling enhancement through antenna incorporation in thin Au-mica trench waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 2954	1.7	
108	Synthesis and Characterization of CuZnSe ₂ Nanocrystals in Wurtzite, Zinc Blende, and Core/Shell Polytypes. <i>Chemistry of Materials</i> , 2019 , 31, 10085-10093	9.6	4
107	Unraveling the Link between Solvent-Mediated Proton Transfer and the Salt Formation of Saccharin and Sulfamethazine. <i>Crystal Growth and Design</i> , 2019 , 19, 613-619	3.5	6
106	Multimodal surface analyses of chemistry and structure of biominerals in rodent pineal gland concretions. <i>Applied Surface Science</i> , 2019 , 469, 378-386	6.7	2
105	Copper Sulfide (Cu _x 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> , 2018 , 28, 1800587	15.6	59
104	Investigation into the Selenization Mechanisms of Wurtzite CZTS Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7117-7125	9.5	9
103	Aligned Copper Zinc Tin Sulfide Nanorods as Lithium-Ion Battery Anodes with High Specific Capacities. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20090-20098	3.8	15
102	Axial Si-Ge Heterostructure Nanowires as Lithium-Ion Battery Anodes. <i>Nano Letters</i> , 2018 , 18, 5569-5575	11.5	57
101	Surface plasmon propagation enhancement via bowtie antenna incorporation in Au-mica block waveguides. <i>Applied Optics</i> , 2018 , 57, E50-E56	1.7	2
100	Linear heterostructured NiSi/Si nanowires with abrupt interfaces synthesised in solution. <i>Nanoscale</i> , 2018 , 10, 19182-19187	7.7	3
99	Synthesis of Curved CuIn _{1-x} Ga _x (S _{1-y} Se _y) ₂ Nanocrystals and Complete Characterization of Their Diffraction Contrast Effects. <i>Chemistry of Materials</i> , 2018 , 30, 8679-8689	9.6	5
98	Layered Bimetallic Metal-Organic Material Derived Cu ₂ SnS ₃ /SnS ₂ /C Composite for Anode Applications in Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2018 , 5, 3764-3770	4.3	9
97	Common Battery Anode Testing Protocols Are Not Suitable for New Combined Alloying and Conversion Materials. <i>ChemElectroChem</i> , 2018 , 5, 3757-3763	4.3	1
96	Low temperature solution synthesis of silicon, germanium and Si-Ge axial heterostructures in nanorod and nanowire form. <i>Chemical Communications</i> , 2018 , 54, 5728-5731	5.8	12

95	Compound Copper Chalcogenide Nanocrystals. <i>Chemical Reviews</i> , 2017 , 117, 5865-6109	68.1	493
94	Solution synthesis of lead seeded germanium nanowires and branched nanowire networks and their application as Li-ion battery anodes. <i>Nanotechnology</i> , 2017 , 28, 255603	3.4	15
93	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> , 2017 , 359, 601-610	8.9	56
92	Behavior of Germanium and Silicon Nanowire Anodes with Ionic Liquid Electrolytes. <i>ACS Nano</i> , 2017 , 11, 5933-5943	16.7	54
91	Temperature controlled shape evolution of iron oxide nanostructures in HMTA media. <i>RSC Advances</i> , 2017 , 7, 26328-26334	3.7	7
90	Assembling Ordered Nanorod Superstructures and Their Application as Microcavity Lasers. <i>Scientific Reports</i> , 2017 , 7, 43884	4.9	19
89	The selective synthesis of nickel germanide nanowires and nickel germanide seeded germanium nanowires within a solvent vapour growth system. <i>CrystEngComm</i> , 2017 , 19, 2072-2078	3.3	8
88	Direct Synthesis of Alloyed SiGe Nanowires for Performance-Tunable Lithium Ion Battery Anodes. <i>ACS Nano</i> , 2017 , 11, 10088-10096	16.7	48
87	Insight into the Role of Additives in Controlling Polymorphic Outcome: A CO ₂ -Antisolvent Crystallization Process of Carbamazepine. <i>Crystal Growth and Design</i> , 2017 , 17, 4544-4553	3.5	40
86	Selective Phase Transformation of Wurtzite Cu ₂ ZnSn(SSe) ₄ (CZTSSe) Nanocrystals into Zinc-Blende and Kesterite Phases by Solution and Solid State Transformations. <i>Chemistry of Materials</i> , 2016 , 28, 5055-5062	9.6	21
85	Solvent Vapor Growth of Axial Heterostructure Nanowires with Multiple Alternating Segments of Silicon and Germanium. <i>Nano Letters</i> , 2016 , 16, 374-80	11.5	21
84	Heteroaggregation assisted wet synthesis of core-shell silver-silica-cadmium selenide nanowires. <i>Nanoscale</i> , 2016 , 8, 1200-9	7.7	6
83	Advances in the Application of Silicon and Germanium Nanowires for High-Performance Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016 , 28, 5696-704	24	137
82	Colloidal synthesis of Cu ₂ SnSe ₃ nanocrystals with structure induced shape evolution. <i>CrystEngComm</i> , 2016 , 18, 3161-3169	3.3	13
81	Formation of reworkable nanocomposite adhesives by dielectric heating of epoxy resin embedded Fe ₃ O ₄ hollow spheres. <i>CrystEngComm</i> , 2016 , 18, 6096-6101	3.3	7
80	Complete assembly of Cu ₂ ZnSnS ₄ (CZTS) nanorods at substrate interfaces using a combination of self and directed organisation. <i>Chemical Communications</i> , 2016 , 52, 11587-90	5.8	12
79	A facile phosphine-free colloidal synthesis of Cu ₂ SnS ₃ and Cu ₂ ZnSnS ₄ nanorods with a controllable aspect ratio. <i>Chemical Communications</i> , 2015 , 51, 13810-3	5.8	35
78	Occurrence of Polytypism in Compound Colloidal Metal Chalcogenide Nanocrystals, Opportunities, and Challenges. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3141-3148	6.4	20

77	Nanowire Heterostructures Comprising Germanium Stems and Silicon Branches as High-Capacity Li-Ion Anodes with Tunable Rate Capability. <i>ACS Nano</i> , 2015 , 9, 7456-65	16.7	67
76	Colloidal Cu ₂ ZnSn(SSe) ₄ (CZTSSe) Nanocrystals: Shape and Crystal Phase Control to Form Dots, Arrows, Ellipsoids, and Rods. <i>Chemistry of Materials</i> , 2015 , 27, 4742-4748	9.6	44
75	Complete study of the composition and shape evolution in the synthesis of Cu ₂ ZnSnS ₄ (CZTS) semiconductor nanocrystals. <i>CrystEngComm</i> , 2015 , 17, 6914-6922	3.3	31
74	Pd clusters supported on amorphous, low-porosity carbon spheres for hydrogen production from formic acid. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8719-26	9.5	32
73	High density and patternable growth of silicon, germanium and alloyed SiGe nanowires by a rapid anneal protocol. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7455-7462	7.1	5
72	Synthesis of silicon-germanium axial nanowire heterostructures in a solvent vapor growth system using indium and tin catalysts. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6919-24	3.6	10
71	Insights into the Electrophoretic Deposition of Colloidal II-VI Nanorods: Optimization for Vertically and Horizontally Aligned Assemblies. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D3019-D3024	3.9	6
70	GREENLION Project: Advanced Manufacturing Processes for Low Cost Greener Li-Ion Batteries. <i>Lecture Notes in Mobility</i> , 2015 , 45-60	0.5	1
69	Solution Synthesis and Assembly of Wurtzite-Derived Cu _{1-x} Zn _x S Nanorods with Tunable Composition and Band Gap. <i>Chemistry of Materials</i> , 2015 , 27, 1517-1523	9.6	37
68	Phase-transition-driven growth of compound semiconductor crystals from ordered metastable nanorods. <i>Nature Communications</i> , 2014 , 5, 3133	17.4	87
67	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 & Interfaces</i> , 2014 , 6, 18800-7	9.5	44
66	Assembly of binary, ternary and quaternary compound semiconductor nanorods: From local to device scale ordering influenced by surface charge. <i>CrystEngComm</i> , 2014 , 16, 9446-9454	3.3	19
65	Complete colloidal synthesis of Cu ₂ SnSe ₄ nanocrystals with crystal phase and shape control. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7954-60	16.4	69
64	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> , 2014 , 14, 716-23	11.5	288
63	Promoting cell proliferation using water dispersible germanium nanowires. <i>PLoS ONE</i> , 2014 , 9, e108006	3.7	10
62	Solution phase synthesis of silicon and germanium nanowires. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4996	7.1	31
61	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 & Interfaces</i> , 2013 , 5, 8195-202	9.5	26
60	Colloidal synthesis of homogeneously alloyed CdSe(x)S(1-x) nanorods with compositionally tunable photoluminescence. <i>Chemical Communications</i> , 2013 , 49, 10293-5	5.8	21

59	Systematic Study into the Synthesis and Shape Development in Colloidal CuIn _x Ga _{1-x} S ₂ Nanocrystals. <i>Chemistry of Materials</i> , 2013 , 25, 653-661	9.6	47
58	Fabrication of Noble metal-semiconductor hybrid nanostructures using phase transfer. <i>Nano Research</i> , 2013 , 6, 121-130	10	17
57	Highly ordered nanorod assemblies extending over device scale areas and in controlled multilayers by electrophoretic deposition. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1608-15	3.4	55
56	Compositionally tunable photoluminescence emission in Cu ₂ ZnSn(S _{1-x} Se _x) ₄ nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9120-4	16.4	88
55	Atomically abrupt silicon-germanium axial heterostructure nanowires synthesized in a solvent vapor growth system. <i>Nano Letters</i> , 2013 , 13, 1675-80	11.5	54
54	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> , 2013 , 25, 1816-1822	9.6	72
53	Colloidal synthesis of Cu ₂ SnSe ₃ tetrapod nanocrystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7835-8	16.4	66
52	Rechargeable Li-Ion Battery Anode of Indium Oxide with Visible to Infra-Red Transparency. <i>ECS Transactions</i> , 2013 , 53, 53-61	1	3
51	Epitaxial growth of visible to infra-red transparent conducting In ₂ O ₃ nanodot dispersions and reversible charge storage as a Li-ion battery anode. <i>Nanotechnology</i> , 2013 , 24, 065401	3.4	17
50	Compositionally Tunable Photoluminescence Emission in Cu ₂ ZnSn(S _{1-x} Se _x) ₄ Nanocrystals. <i>Angewandte Chemie</i> , 2013 , 125, 9290-9294	3.6	13
49	Crystallization of Semiconductor Nanorods into Perfectly Faceted Hexagonal Superstructures. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 624-629	3.1	12
48	Silver Tip Formation on Colloidal CdSe Nanorods by a Facile Phase Transfer Protocol. <i>Springer Proceedings in Physics</i> , 2013 , 21-31	0.2	1
47	Water Dispersible Semiconductor Nanorod Assemblies Via a Facile Phase Transfer and Their Application as Fluorescent Biomarkers. <i>Springer Proceedings in Physics</i> , 2013 , 95-110	0.2	
46	High Density Growth of Indium seeded Silicon Nanowires in the Vapor phase of a High Boiling Point Solvent. <i>Chemistry of Materials</i> , 2012 , 24, 2204-2210	9.6	43
45	Assembly of CuIn _(1-x) Ga _x S ₂ nanorods into highly ordered 2D and 3D superstructures. <i>ACS Nano</i> , 2012 , 6, 6977-83	16.7	69
44	Size controlled growth of germanium nanorods and nanowires by solution pyrolysis directly on a substrate. <i>Chemical Communications</i> , 2012 , 48, 5446-8	5.8	19
43	Controlled semiconductor nanorod assembly from solution: influence of concentration, charge and solvent nature. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1562-1569		72
42	Growth of Crystalline Copper Silicide Nanowires in High Yield within a High Boiling Point Solvent System. <i>Chemistry of Materials</i> , 2012 , 24, 4319-4325	9.6	28

41	Insight into the 3D architecture and quasicrystal symmetry of multilayer nanorod assemblies from Moiré interference patterns. <i>ACS Nano</i> , 2012 , 6, 3339-45	16.7	40
40	Colloidal synthesis of wurtzite Cu ₂ ZnSnS ₄ nanorods and their perpendicular assembly. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2910-3	16.4	351
39	A facile spin-cast route for cation exchange of multilayer perpendicularly-aligned nanorod assemblies. <i>Nanoscale</i> , 2011 , 3, 4580-3	7.7	33
38	Electrophoretic deposition of poly(3-decylthiophene) onto gold-mounted cadmium selenide nanorods. <i>Langmuir</i> , 2011 , 27, 13506-13	4	6
37	An ac susceptibility study in capped Ni/Ni(OH) ₂ core-shell nanoassemblies: dual peak observations. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 325004	3	15
36	Protein immobilisation on perpendicularly aligned gold tipped nanorod assemblies. <i>Chemical Communications</i> , 2011 , 47, 2655-7	5.8	11
35	Perpendicular growth of catalyst-free germanium nanowire arrays. <i>Chemical Communications</i> , 2011 , 47, 3843-5	5.8	29
34	Silver tip formation on colloidal CdSe nanorods by a facile phase transfer protocol. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6815		11
33	Role of Defects and Growth Directions in the Formation of Periodically Twinned and Kinked Unseeded Germanium Nanowires. <i>Crystal Growth and Design</i> , 2011 , 11, 3266-3272	3.5	27
32	High Density Germanium Nanowire Growth Directly from Copper Foil by Self-Induced Solid Seeding. <i>Chemistry of Materials</i> , 2011 , 23, 4838-4843	9.6	51
31	Complete synthesis of germanium nanocrystal encrusted carbon colloids in supercritical CO ₂ and their superhydrophobic properties. <i>Langmuir</i> , 2011 , 27, 11166-73	4	5
30	The Role of Texturing and Densification on Optical Transmittance of Hydroxyapatite Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3773-3777	3.8	19
29	Size controlled gold tip growth onto II-VI nanorods. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7875		35
28	Directing semiconductor nanorod assembly into 1D or 2D supercrystals by altering the surface charge. <i>Chemical Communications</i> , 2010 , 46, 7193-5	5.8	49
27	Metal surface nucleated supercritical fluid-solid growth of Si and Ge/SiO _x core-shell nanowires. <i>Journal of Materials Chemistry</i> , 2010 , 20, 135-144		20
26	A multi-rate kinetic model for spontaneous oriented attachment of CdS nanorods. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 12430-5	3.6	22
25	Electrophoretic Deposition of Spherical and Rod-Shaped Nanocrystals into Close Packed Superlattices. <i>ECS Transactions</i> , 2009 , 19, 209-219	1	4
24	The evolution of pseudo-spherical silicon nanocrystals to tetrahedra, mediated by phosphonic acid surfactants. <i>Nanotechnology</i> , 2009 , 20, 275605	3.4	19

23	Block copolymer mediated stabilization of sub-5 nm superparamagnetic nickel nanoparticles in an aqueous medium. <i>Nanotechnology</i> , 2009 , 20, 415603	3.4	31
22	Spontaneous room temperature elongation of CdS and Ag ₂ S nanorods via oriented attachment. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12250-7	16.4	85
21	Water dispersible semiconductor nanorod assemblies via a facile phase transfer and their application as fluorescent biomarkers. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8974		17
20	Centimetre scale assembly of vertically aligned and close packed semiconductor nanorods from solution. <i>Chemical Communications</i> , 2009 , 6421-3	5.8	52
19	Gold tip formation on perpendicularly aligned semiconductor nanorod assemblies. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5218		36
18	The Role of Software Engineering in Future Automotive Systems Development. <i>SAE International Journal of Passenger Cars - Electronic and Electrical Systems</i> , 2008 , 1, 544-552		2
17	Close-Packed Gold-Nanocrystal Assemblies Deposited with Complete Selectivity into Lithographic Trenches. <i>Advanced Materials</i> , 2008 , 20, 4745-4750	24	15
16	Self-assembly of vertically aligned nanorod supercrystals using highly oriented pyrolytic graphite. <i>Nano Letters</i> , 2007 , 7, 2480-5	11.5	107
15	Electric-field-assisted assembly of perpendicularly oriented nanorod superlattices. <i>Nano Letters</i> , 2006 , 6, 1479-82	11.5	333
14	Periodic Binary Si:Ti, Si:Al Mixed Macroporous Oxides with Ultrahigh Heteroatom Loading: A Facile Sol-Gel Approach. <i>Chemistry of Materials</i> , 2005 , 17, 1434-1440	9.6	17
13	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> , 2005 , 303-314	1.8	
12	Compact strain-sensitive flexible photonic crystals for sensors. <i>Applied Physics Letters</i> , 2005 , 87, 101902	3.4	68
11	The synthesis of matrices of embedded semiconducting nanowires. <i>Faraday Discussions</i> , 2004 , 125, 311-26; discussion 391-407	3.6	11
10	Pore Expansion in Mesoporous Silicas Using Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , 2004 , 16, 424-427	9.6	43
9	Conductive films of ordered nanowire arrays. <i>Journal of Materials Chemistry</i> , 2004 , 14, 585		45
8	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> , 2003 , 15, L49-L58	1.8	34
7	Supercritical fluid preparation of copper nanotubes and nanowires using mesoporous templates. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 8303-8314	1.8	24
6	Three dimensional architectures of ultra-high density semiconducting nanowires deposited on chip. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6284-8	16.4	82

5	Control of Pore Morphology in Mesoporous Silicas Synthesized from Triblock Copolymer Templates. <i>Langmuir</i> , 2002 , 18, 4996-5001	4	56
4	Preparation of ordered mesoporous ceria with enhanced thermal stability. <i>Journal of Materials Chemistry</i> , 2002 , 12, 1207-1212		117
3	Tailoring the Optical Properties of Silicon Nanowire Arrays through Strain. <i>Nano Letters</i> , 2002 , 2, 811-816	1.5	94
2	The formation of dimensionally ordered germanium nanowires within mesoporous silica. <i>Chemical Physics Letters</i> , 2001 , 343, 1-6	2.5	35
1	Synthesis and characterization of dimensionally ordered semiconductor nanowires within mesoporous silica. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7010-6	16.4	72