

# Sarbajit Banerjee

## List of Publications by Year in descending order

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239  
papers

10,190  
citations

26630

56  
h-index

43889

91  
g-index

245  
all docs

245  
docs citations

245  
times ranked

12780  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photopolymerized superhydrophobic hybrid coating enabled by dual-purpose tetrapodal ZnO for liquid/liquid separation. <i>Materials Horizons</i> , 2022, 9, 452-461.	12.2	12
2	Probing Relaxation Dynamics and Stepped Domain Switching in Boron-Alloyed VO <sub>2</sub> . <i>Advanced Electronic Materials</i> , 2022, 8, 2100932.	5.1	5
3	Effect of crystallite geometries on electrochemical performance of porous intercalation electrodes by multiscale operando investigation. <i>Nature Materials</i> , 2022, 21, 217-227.	27.5	35
4	Topochemical stabilization and single-crystal transformations of a metastable 2D $\text{V}^{3+}$ -VO <sub>5</sub> intercalation cathode. <i>Cell Reports Physical Science</i> , 2022, 3, 100712.	5.6	5
5	Cation reordering instead of phase transitions: Origins and implications of contrasting lithiation mechanisms in 1D $\text{V}^{3+}$ - and 2D $\text{V}^{3+}$ -VO <sub>5</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	11
6	Lone but Not Alone: Precise Positioning of Lone Pairs for the Design of Photocatalytic Architectures. <i>Chemistry of Materials</i> , 2022, 34, 1439-1458.	6.7	12
7	A Materials Science Perspective of Midstream Challenges in the Utilization of Heavy Crude Oil. <i>ACS Omega</i> , 2022, 7, 1547-1574.	3.5	14
8	Near-Ambient Nanocomposite Thermo-chromic Fenestration Elements from Post-Encapsulation-Annealed Tungsten-Alloyed Vanadium(IV) Oxide Nanocrystals. <i>ACS Applied Energy Materials</i> , 2022, 5, 4829-4839.	5.1	4
9	Multiscale Textured Mesh Substrates that Glide Alcohol Droplets and Impede Ice Nucleation. <i>Advanced Engineering Materials</i> , 2022, 24, .	3.5	1
10	Chemical transformations of extraterrestrial soils. <i>Trends in Chemistry</i> , 2022, 4, 260-263.	8.5	3
11	Inverse emulsion-crosslinked cyclodextrin polymer nanoparticles for selective adsorption and chemiresistive sensing of BTEX. <i>Materials Today Chemistry</i> , 2022, 24, 100915.	3.5	1
12	Grid nanoindentation on calcium sulfoaluminate (CSA)-Kaolinite pastes. <i>Construction and Building Materials</i> , 2022, 335, 127523.	7.2	0
13	Decoupling the metal-insulator transition temperature and hysteresis of VO <sub>2</sub> using Ge alloying and oxygen vacancies. <i>Chemical Communications</i> , 2022, 58, 6586-6589.	4.1	6
14	A deep learned nanowire segmentation model using synthetic data augmentation. <i>Npj Computational Materials</i> , 2022, 8, .	8.7	11
15	A $\text{Li}^{+}$ -View of Diffusion Pathways in a 2D Intercalation Material from Topochemical Single-Crystal Transformation. <i>ACS Energy Letters</i> , 2022, 7, 1960-1962.	17.4	4
16	Thermodynamics of Wettability: A Physical Chemistry Laboratory Experiment. <i>Journal of Chemical Education</i> , 2022, 99, 2689-2696.	2.3	2
17	Building Back Better: Lessons Learned from Sichuan Earthquake on Decarbonizing China's Construction Industry through Microalloying. <i>Matter</i> , 2021, 4, 4-9.	10.0	2
18	Design, synthesis and characterization of fused bithiazole- and dithiophene-based low bandgap thienylenevinylene copolymers. <i>Polymer Chemistry</i> , 2021, 12, 5942-5951.	3.9	6

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19	Solution-processable porous graphitic carbon from bottom-up synthesis and low-temperature graphitization. <i>Chemical Science</i> , 2021, 12, 8438-8444.	7.4	19
20	Punching above its weight: life cycle energy accounting and environmental assessment of vanadium microalloying in reinforcement bar steel. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 275-290.	3.5	7
21	Alkoxy functionalized benzothiadiazole based donor-acceptor conjugated copolymers for organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5113-5123.	5.5	22
22	Electronic structure modulation of MoS <sub>2</sub> by substitutional Se incorporation and interfacial MoO <sub>3</sub> hybridization: Implications of Fermi engineering for electrocatalytic hydrogen evolution and oxygen evolution. <i>Chemical Physics Reviews</i> , 2021, 2, .	5.7	8
23	Asphaltene Microencapsulation of Bitumen as a Means of Solid-Phase Transport. <i>Energy &amp; Fuels</i> , 2021, 35, 6576-6584.	5.1	3
24	Halide Replacement with Complete Preservation of Crystal Lattice in Mixed-Anion Lanthanide Oxyhalides. <i>Angewandte Chemie</i> , 2021, 133, 15710-15717.	2.0	1
25	Halide Replacement with Complete Preservation of Crystal Lattice in Mixed-Anion Lanthanide Oxyhalides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15582-15589.	13.8	11
26	Negative Thermal Expansion HfV <sub>2</sub> O <sub>7</sub> Nanostructures for Alleviation of Thermal Stress in Nanocomposite Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44723-44732.	8.0	7
27	Lessons learned from FeSb <sub>2</sub> O <sub>4</sub> on stereoactive lone pairs as a design principle for anion insertion. <i>Cell Reports Physical Science</i> , 2021, 2, 100592.	5.6	3
28	Powder bed coating of bitumen with asphaltenes to obtain solid prills for midstream transportation. <i>Fuel</i> , 2021, 302, 121093.	6.4	4
29	A chemo-mechanical damage model at large deformation: numerical and experimental studies on polycrystalline energy materials. <i>International Journal of Solids and Structures</i> , 2021, 228, 111099.	2.7	20
30	Elucidating the Role of Dissolved Organic Matter and Sunlight in Mediating the Formation of Ag-Au Bimetallic Alloy Nanoparticles in the Aquatic Environment. <i>Environmental Science &amp; Technology</i> , 2021, 55, 1710-1720.	10.0	11
31	Assessing the role of vanadium technologies in decarbonizing hard-to-abate sectors and enabling the energy transition. <i>IScience</i> , 2021, 24, 103277.	4.1	12
32	Structure-Dependent Accessibility of Phonon-Coupled Radiative Relaxation Pathways Probed by X-ray-Excited Optical Luminescence. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11170-11175.	4.6	0
33	Mapping mechanisms and growth regimes of magnesium electrodeposition at high current densities. <i>Materials Horizons</i> , 2020, 7, 843-854.	12.2	77
34	Curvature-Induced Modification of Mechano-Electrochemical Coupling and Nucleation Kinetics in a Cathode Material. <i>Matter</i> , 2020, 3, 1754-1773.	10.0	18
35	Does Water Enhance Mg Intercalation in Oxides? The Case of a Tunnel Framework. <i>ACS Energy Letters</i> , 2020, 5, 3357-3361.	17.4	13
36	An Atomic View of Cation Diffusion Pathways from Single-Crystal Topochemical Transformations. <i>Angewandte Chemie</i> , 2020, 132, 16527-16534.	2.0	3

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37	Toward High-Precision Control of Transformation Characteristics in VO <sub>2</sub> through Dopant Modulation of Hysteresis. Journal of Physical Chemistry C, 2020, 124, 21223-21231.	3.1	16
38	Frontiers in hybrid and interfacial materials chemistry research. MRS Bulletin, 2020, 45, 951-964.	3.5	6
39	Lattice Anharmonicity of Stereochemically Active Lone Pairs Controls Thermo-chromic Band Gap Reduction of PbVO <sub>3</sub> Cl. Chemistry of Materials, 2020, 32, 7404-7412.	6.7	15
40	Navigating the design space of inorganic materials synthesis using statistical methods and machine learning. Dalton Transactions, 2020, 49, 11480-11488.	3.3	24
41	Atomic Hourglass and Thermometer Based on Diffusion of a Mobile Dopant in VO <sub>2</sub> . Journal of the American Chemical Society, 2020, 142, 15513-15526.	13.7	23
42	Elucidating the Mechanistic Origins of Photocatalytic Hydrogen Evolution Mediated by MoS <sub>2</sub> /CdS Quantum-Dot Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 43728-43740.	8.0	42
43	Cyclodextrin-derived polymer networks for selective molecular adsorption. Chemical Communications, 2020, 56, 11783-11786.	4.1	13
44	Three-Dimensional Inverse Opal TiO <sub>2</sub> Coatings to Enable the Gliding of Viscous Oils. Energy & Fuels, 2020, 34, 13606-13613.	5.1	5
45	Celebrating 5 Years of Open Access with ACS Omega. ACS Omega, 2020, 5, 16986-16986.	3.5	2
46	Bending good beats breaking bad: phase separation patterns in individual cathode particles upon lithiation and delithiation. Materials Horizons, 2020, 7, 3275-3290.	12.2	14
47	Enhanced charge storage of nanometric V <sub>2</sub> O <sub>5</sub> in Mg electrolytes. Nanoscale, 2020, 12, 22150-22160.	5.6	15
48	An Atomic View of Cation Diffusion Pathways from Single-Crystal Topochemical Transformations. Angewandte Chemie - International Edition, 2020, 59, 16385-16392.	13.8	20
49	Designing catalysts for water splitting based on electronic structure considerations. Electronic Structure, 2020, 2, 023001.	2.8	43
50	Reversible Room-Temperature Fluoride-Ion Insertion in a Tunnel-Structured Transition Metal Oxide Host. ACS Energy Letters, 2020, 5, 2520-2526.	17.4	13
51	Electrical vapour sensing with macrocyclic molecular receptors. Supramolecular Chemistry, 2020, 32, 165-177.	1.2	7
52	Metal-Insulator Transitions in V <sub>2</sub> O <sub>5</sub> Mediated by Polaron Oscillation and Cation Shuttling. Matter, 2020, 2, 1166-1186.	10.0	9
53	In situ Resource Utilization and Reconfiguration of Soils Into Construction Materials for the Additive Manufacturing of Buildings. Frontiers in Materials, 2020, 7, .	2.4	26
54	Hierarchically Textured Oleophobic Internal Coatings that Facilitate Drag Reduction of Viscous Oils in Macroscopic Laminar Flow. Advanced Engineering Materials, 2020, 22, 2000333.	3.5	6

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55	Optical modulation in hybrid antiresonant hollow-core fiber infiltrated with vanadium dioxide phase change nanocrystals. <i>Optics Letters</i> , 2020, 45, 4240.	3.3	5
56	Chemically inert covalently networked triazole-based solid polymer electrolytes for stable all-solid-state lithium batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19691-19695.	10.3	17
57	Chemo-mechanical degradation in $V_2O_5$ thin film cathodes of Li-ion batteries during electrochemical cycling. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23922-23930.	10.3	24
58	Energy Spotlight. <i>ACS Energy Letters</i> , 2019, 4, 2763-2769.	17.4	1
59	Building Brain-Inspired Logic Circuits from Dynamically Switchable Transition-Metal Oxides. <i>Trends in Chemistry</i> , 2019, 1, 711-726.	8.5	39
60	Functionalized Tetrapodal ZnO Membranes Exhibiting Superoleophobic and Superhydrophilic Character for Water/Oil Separation Based on Differential Wettability. <i>Energy &amp; Fuels</i> , 2019, 33, 5024-5034.	5.1	21
61	Tortuosity but Not Percolation: Design of Exfoliated Graphite Nanocomposite Coatings for Extended Corrosion Protection of Aluminum Alloys. <i>ACS Applied Nano Materials</i> , 2019, 2, 3100-3116.	5.0	27
62	Machine Learning-Directed Navigation of Synthetic Design Space: A Statistical Learning Approach to Controlling the Synthesis of Perovskite Halide Nanoplatelets in the Quantum-Confined Regime. <i>Chemistry of Materials</i> , 2019, 31, 3281-3292.	6.7	40
63	Magnesium Nanocomposite Coatings for Protection of a Lightweight Al Alloy: Modes of Corrosion Protection, Mechanisms of Failure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800817.	1.8	6
64	An evaluation of the reduction of heat loss enabled by halloysite modification of oilwell cement. <i>Engineering Research Express</i> , 2019, 1, 025028.	1.6	7
65	Type-II heterostructures of $V_2O_5$ nanowires interfaced with cadmium chalcogenide quantum dots: Programmable energetic offsets, ultrafast charge transfer, and photocatalytic hydrogen evolution. <i>Journal of Chemical Physics</i> , 2019, 151, 224702.	3.0	6
66	Epitaxial stabilization versus interdiffusion: synthetic routes to metastable cubic $HfO_2$ and $HfVO_7$ from the core-shell arrangement of precursors. <i>Nanoscale</i> , 2019, 11, 21354-21363.	5.6	5
67	Effectiveness of zinc oxide-assisted photocatalysis for concerned constituents in reclaimed wastewater: 1,4-Dioxane, trihalomethanes, antibiotics, antibiotic resistant bacteria (ARB), and antibiotic resistance genes (ARGs). <i>Science of the Total Environment</i> , 2019, 649, 1189-1197.	8.0	64
68	A full palette: Crystal chemistry, polymorphism, synthetic strategies, and functional applications of lanthanide oxyhalides. <i>Journal of Solid State Chemistry</i> , 2019, 270, 569-592.	2.9	23
69	Formation of Magnesium Dendrites during Electrodeposition. <i>ACS Energy Letters</i> , 2019, 4, 375-376.	17.4	221
70	The Middle Road Less Taken: Electronic-Structure-Inspired Design of Hybrid Photocatalytic Platforms for Solar Fuel Generation. <i>Accounts of Chemical Research</i> , 2019, 52, 645-655.	15.6	29
71	In-situ measurements of stress evolution in composite sulfur cathodes. <i>Energy Storage Materials</i> , 2019, 16, 491-497.	18.0	26
72	Separation of Viscous Oil Emulsions Using Three-Dimensional Nanotetrapodal ZnO Membranes. <i>Energy &amp; Fuels</i> , 2018, 32, 4894-4902.	5.1	12

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73	Striping modulations and strain gradients within individual particles of a cathode material upon lithiation. <i>Materials Horizons</i> , 2018, 5, 486-498.	12.2	17
74	Mapping Catalytically Relevant Edge Electronic States of MoS <sub>2</sub> . <i>ACS Central Science</i> , 2018, 4, 493-503.	11.3	39
75	Stabilization of a Metastable Tunnel-Structured Orthorhombic Phase of VO <sub>2</sub> upon Iridium Doping. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700884.	1.8	7
76	Reversible Mg-Ion Insertion in a Metastable One-Dimensional Polymorph of V <sub>2</sub> O <sub>5</sub> . <i>CheM</i> , 2018, 4, 564-585.	11.7	126
77	Strain and Bond Length Dynamics upon Growth and Transfer of Graphene by NEXAFS Spectroscopy from First-Principles and Experiment. <i>Langmuir</i> , 2018, 34, 1783-1794.	3.5	11
78	Defining Diffusion Pathways in Intercalation Cathode Materials: Some Lessons from V <sub>2</sub> O <sub>5</sub> on Directing Cation Traffic. <i>ACS Energy Letters</i> , 2018, 3, 915-931.	17.4	79
79	Modulating the Hysteresis of an Electronic Transition: Launching Alternative Transformation Pathways in the Metal-Insulator Transition of Vanadium(IV) Oxide. <i>Chemistry of Materials</i> , 2018, 30, 214-224.	6.7	20
80	Incorporation of Hydroxyethylcellulose-Functionalized Halloysite as a Means of Decreasing the Thermal Conductivity of Oilwell Cement. <i>Scientific Reports</i> , 2018, 8, 16149.	3.3	17
81	It's Not Over until the Big Ion Dances: Potassium Gets Its Groove On. <i>Joule</i> , 2018, 2, 2194-2197.	24.0	12
82	Elucidating the Crystallite Size Dependence of the Thermochromic Properties of Nanocomposite VO <sub>2</sub> Thin Films. <i>ACS Omega</i> , 2018, 3, 14280-14293.	3.5	14
83	Hole Extraction by Design in Photocatalytic Architectures Interfacing CdSe Quantum Dots with Topochemically Stabilized Tin Vanadium Oxide. <i>Journal of the American Chemical Society</i> , 2018, 140, 17163-17174.	13.7	33
84	Photodegradation of fluorotelomer carboxylic 5:3 acid and perfluorooctanoic acid using zinc oxide. <i>Environmental Pollution</i> , 2018, 243, 637-644.	7.5	20
85	Stabilization of a Metastable Tunnel-Structured Orthorhombic Phase of VO <sub>2</sub> upon Iridium Doping ( <i>Phys. Status Solidi A</i> 16 <sup>th</sup> 2018). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1870039.	1.8	0
86	Ligand-Mediated Control of Dopant Oxidation State and X-ray Excited Optical Luminescence in Eu-Doped LaOCl. <i>Inorganic Chemistry</i> , 2018, 57, 5842-5849.	4.0	15
87	Ligand-Directed Stabilization of Ternary Phases: Synthetic Control of Structural Dimensionality in Solution-Grown Cesium Lead Bromide Nanocrystals. <i>Chemistry of Materials</i> , 2018, 30, 6144-6155.	6.7	39
88	In a Different Light: Deciphering Optical and X-ray Sensitization Mechanisms in an Expanded Palette of LaOCl Phosphors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16412-16423.	3.1	11
89	Traversing Energy Landscapes Away from Equilibrium: Strategies for Accessing and Utilizing Metastable Phase Space. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25709-25728.	3.1	75
90	Roadblocks in Cation Diffusion Pathways: Implications of Phase Boundaries for Li-Ion Diffusivity in an Intercalation Cathode Material. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 30901-30911.	8.0	19

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91	Stabilization of Ag@Au Bimetallic Nanocrystals in Aquatic Environments Mediated by Dissolved Organic Matter: A Mechanistic Perspective. <i>Environmental Science &amp; Technology</i> , 2018, 52, 7269-7278.	10.0	19
92	Nucleation-controlled hysteresis in unstrained hydrothermal $V_2O_5$ particles. <i>Physical Review Materials</i> , 2018, 2, .	2.4	10
93	Orthogonal Wettability of Hierarchically Textured Metal Meshes as a Means of Separating Water/Oil Emulsions. <i>Advanced Engineering Materials</i> , 2017, 19, 1600808.	3.5	27
94	Mapping the electrocatalytic activity of $MoS_2$ across its amorphous to crystalline transition. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5129-5141.	10.3	41
95	Fabrication and Electrochemical Performance of Structured Mesoscale Open Shell $V_2O_5$ Networks. <i>Langmuir</i> , 2017, 33, 5975-5981.	3.5	11
96	Real-time atomistic observation of structural phase transformations in individual hafnia nanorods. <i>Nature Communications</i> , 2017, 8, 15316.	12.8	59
97	Postsynthetic Route for Modifying the Metal-Insulator Transition of $VO_2$ by Interstitial Dopant Incorporation. <i>Chemistry of Materials</i> , 2017, 29, 5401-5412.	6.7	36
98	Intercalation-Induced Exfoliation and Thickness-Modulated Electronic Structure of a Layered Ternary Vanadium Oxide. <i>Chemistry of Materials</i> , 2017, 29, 3285-3294.	6.7	19
99	Direct evidence of M2 phase during the monoclinic-tetragonal (rutile) phase transition of W-doped $VO_2$ nanowires. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	11
100	Looking Outwards from the "Central Science": An Interdisciplinary Perspective on Graduate Education in Materials Chemistry. <i>ACS Symposium Series</i> , 2017, , 65-89.	0.5	3
101	Hybrid Nanocomposite Films Comprising Dispersed $VO_2$ Nanocrystals: A Scalable Aqueous-Phase Route to Thermochromic Fenestration. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 38887-38900.	8.0	30
102	The electronic structure of $\mu\text{-}V_2O_5$ : an expanded band gap in a double-layered polymorph with increased interlayer separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23694-23703.	10.3	10
103	Memristive response of a new class of hydrated vanadium oxide intercalation compounds. <i>MRS Communications</i> , 2017, 7, 634-641.	1.8	7
104	Biomimetic Plastronic Surfaces for Handling of Viscous Oil. <i>Energy &amp; Fuels</i> , 2017, 31, 9337-9344.	5.1	16
105	Modeling of phase separation across interconnected electrode particles in lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 41254-41264.	3.6	24
106	Lithiation across interconnected $V_2O_5$ nanoparticle networks. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20141-20152.	10.3	26
107	X-ray Spectroscopy and Imaging as Multiscale Probes of Intercalation Phenomena in Cathode Materials. <i>Jom</i> , 2017, 69, 1469-1477.	1.9	10
108	Influence of ligand shell ordering on dimensional confinement of cesium lead bromide ( $CsPbBr_3$ ) perovskite nanoplatelets. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8810-8818.	5.5	66

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109	Mitigating Cation Diffusion Limitations and Intercalation-Induced Framework Transitions in a 1D Tunnel-Structured Polymorph of $V_2O_5$ . Chemistry of Materials, 2017, 29, 10386-10397.	6.7	24
110	Evaluation of Multivalent Cation Insertion in Single- and Double-Layered Polymorphs of $V_2O_5$ . ACS Applied Materials & Interfaces, 2017, 9, 23756-23765.	8.0	64
111	Structure-Induced Switching of the Band Gap, Charge Order, and Correlation Strength in Ternary Vanadium Oxide Bronzes. Chemistry - A European Journal, 2017, 23, 9846-9856.	3.3	3
112	Monitoring Deformation in Graphene Through Hyperspectral Synchrotron Spectroscopy to Inform Fabrication. Journal of Physical Chemistry C, 2017, 121, 15653-15664.	3.1	3
113	Direct Observation of Hafnia Structural Phase Transformations. Microscopy and Microanalysis, 2017, 23, 2092-2093.	0.4	0
114	Building on Sub-Arctic Soil: Geopolymerization of Muskeg to a Densified Load-Bearing Composite. Scientific Reports, 2017, 7, 14711.	3.3	9
115	Aberration corrected STEM and High Resolution EELS study Investigating Magnesium Intercalation in Vanadium Pentoxide Cathode. Microscopy and Microanalysis, 2016, 22, 1318-1319.	0.4	0
116	In situ cooling and heating study of $VO_2$ phase transition. Microscopy and Microanalysis, 2016, 22, 816-817.	0.4	0
117	Atomic Resolution Studies of W Dopants Effect on the Phase Transformation of $VO_2$ . Microscopy and Microanalysis, 2016, 22, 884-885.	0.4	1
118	Programming Interfacial Energetic Offsets and Charge Transfer in $\text{Pb}_{0.33}V_2O_5$ /Quantum-Dot Heterostructures: Tuning Valence-Band Edges to Overlap with Midgap States. Journal of Physical Chemistry C, 2016, 120, 28992-29001.	3.1	11
119	Stabilizing metastable tetragonal $HfO_2$ using a non-hydrolytic solution-phase route: ligand exchange as a means of controlling particle size. Chemical Science, 2016, 7, 4930-4939.	7.4	29
120	An in Situ Sulfidation Approach for the Integration of $MoS_2$ Nanosheets on Carbon Fiber Paper and the Modulation of Its Electrocatalytic Activity by Interfacing with $C_{60}$ . ACS Catalysis, 2016, 6, 6246-6254.	11.2	60
121	Mechanistic Evaluation of $Li_xO_y$ Formation on $\text{MnO}_2$ in Nonaqueous Li-Air Batteries. ACS Applied Materials & Interfaces, 2016, 8, 23028-23036.	8.0	46
122	Ligand-Mediated Modulation of Layer Thicknesses of Perovskite Methylammonium Lead Bromide Nanoplatelets. Chemistry of Materials, 2016, 28, 6909-6916.	6.7	89
123	Topochemically De-Intercalated Phases of $V_2O_5$ as Cathode Materials for Multivalent Intercalation Batteries: A First-Principles Evaluation. Chemistry of Materials, 2016, 28, 5611-5620.	6.7	84
124	Selective electrochemical reactivity of rutile $VO_2$ the suppression of metal-insulator transition. Physical Review B, 2016, 93, .	3.4	20
125	Graphene Coatings for the Corrosion Protection of Base Metals. , 2016, , 155-176.		1
126	Vanadium K-Edge X-ray Absorption Spectroscopy as a Probe of the Heterogeneous Lithiation of $V_2O_5$ : First-Principles Modeling and Principal Component Analysis. Journal of Physical Chemistry C, 2016, 120, 23922-23932.	3.1	52



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127	Mapping polaronic states and lithiation gradients in individual V <sub>2</sub> O <sub>5</sub> nanowires. Nature Communications, 2016, 7, 12022.	12.8	115
128	Contrasting 1D tunnel-structured and 2D layered polymorphs of V <sub>2</sub> O <sub>5</sub> : relating crystal structure and bonding to band gaps and electronic structure. Physical Chemistry Chemical Physics, 2016, 18, 15798-15806.	2.8	32
129	Directional Charge Transfer Mediated by Mid-Gap States: A Transient Absorption Spectroscopy Study of CdSe Quantum Dot/ <sup>12</sup> Pb <sub>0.33</sub> V <sub>2</sub> O <sub>5</sub> Heterostructures. Journal of Physical Chemistry C, 2016, 120, 5221-5232.	3.1	25
130	X-ray excited photoluminescence near the giant resonance in solid-solution Gd <sub>1-x</sub> Tb <sub>x</sub> OCl nanocrystals and their retention upon solvothermal topotactic transformation to Gd <sub>1-x</sub> Tb <sub>x</sub> F <sub>3</sub> . Nanoscale, 2016, 8, 979-986.	5.6	15
131	Proliferation of metallic domains caused by inhomogeneous heating near the electrically driven transition in $VO_2$ . Physical Review B, 2015, 92, .	3.2	13
132	Separating electric field and thermal effects across the metal-insulator transition in vanadium oxide nanobeams. Applied Physics Letters, 2015, 107, .	3.3	19
133	Determination of Free Electron Density in Sequentially Doped In <sub>x</sub> Ga <sub>1-x</sub> As by Raman Spectroscopy. Applied Spectroscopy, 2015, 69, 239-242.	2.2	3
134	Atomic Layer Deposition of Hafnium(IV) Oxide on Graphene Oxide: Probing Interfacial Chemistry and Nucleation by using X-ray Absorption and Photoelectron Spectroscopies. ChemPhysChem, 2015, 16, 2842-2848.	2.1	7
135	Transformers: the changing phases of low-dimensional vanadium oxide bronzes. Chemical Communications, 2015, 51, 5181-5198.	4.1	75
136	Hybrid nanostructured coatings for corrosion protection of base metals: a sustainability perspective. Materials Research Express, 2015, 2, 032001.	1.6	62
137	Charge density waves in individual nanoribbons of orthorhombic-TaS <sub>3</sub> . Physical Chemistry Chemical Physics, 2015, 17, 18374-18379.	2.8	6
138	Potential application of tip-enhanced Raman spectroscopy (TERS) in semiconductor manufacturing. , 2015, , .		2
139	Integrating <sup>12</sup> Pb <sub>0.33</sub> V <sub>2</sub> O <sub>5</sub> Nanowires with CdSe Quantum Dots: Toward Nanoscale Heterostructures with Tunable Interfacial Energetic Offsets for Charge Transfer. Chemistry of Materials, 2015, 27, 2468-2479.	6.7	20
140	Two-Dimensional Graphene as a Matrix for MALDI Imaging Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2015, 26, 1963-1966.	2.8	24
141	Atomic Origins of Monoclinic-Tetragonal (Rutile) Phase Transition in Doped VO <sub>2</sub> Nanowires. Nano Letters, 2015, 15, 7179-7188.	9.1	52
142	Emptying and filling a tunnel bronze. Chemical Science, 2015, 6, 1712-1718.	7.4	42
143	Ligand-Mediated Control of Dislocation Dynamics and Resulting Particle Morphology of GdOCl Nanocrystals. Small, 2015, 11, 329-334.	10.0	20
144	Microwave-induced nucleation of conducting graphitic domains on silicon carbide surfaces. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2014, 32, 011215.	1.2	3

#	ARTICLE	IF	CITATIONS
145	Silica-shell encapsulation and adhesion of VO <sub>2</sub> nanowires to glass substrates: integrating solution-derived VO <sub>2</sub> nanowires within thermally responsive coatings. <i>Materials Research Express</i> , 2014, 1, 035014.	1.6	11
146	X-ray absorption spectroscopy studies of electronic structure recovery and nitrogen local structure upon thermal reduction of graphene oxide in an ammonia environment. <i>RSC Advances</i> , 2014, 4, 634-644.	3.6	60
147	Synthesis of novel single-walled carbon nanotube/magnesium nanoparticle composites by a solution reduction method. <i>Materials Letters</i> , 2014, 117, 305-308.	2.6	4
148	Raman spectroscopy studies of dopant activation and free electron density of In <sub>0.53</sub> Ga <sub>0.47</sub> As via sulfur monolayer doping. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6539.	2.8	12
149	Ferroelastic Domain Organization and Precursor Control of Size in Solution-Grown Hafnium Dioxide Nanorods. <i>ACS Nano</i> , 2014, 8, 4678-4688.	14.6	29
150	Intermediate metallic phase in VO <sub>2</sub> observed with scanning tunneling spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14183-14188.	2.8	4
151	Graphene oxide and functionalized multi walled carbon nanotubes as epoxy curing agents: a novel synthetic approach to nanocomposites containing active nanostructured fillers. <i>RSC Advances</i> , 2014, 4, 49264-49272.	3.6	51
152	Electronic Phase Transitions of Ag <sub>2</sub> V <sub>2</sub> O <sub>5</sub> Nanowires: Interplay between Geometric and Electronic Structures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21235-21243.	3.1	17
153	Scalable Hydrothermal Synthesis of Free-Standing VO <sub>2</sub> Nanowires in the M1 Phase. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15726-15732.	8.0	48
154	Nanostructured Magnesium Composite Coatings for Corrosion Protection of Low-Alloy Steels. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 18873-18883.	3.7	19
155	An electronic structure perspective of graphene interfaces. <i>Nanoscale</i> , 2014, 6, 3444.	5.6	76
156	Atomic Resolution Study of Local Strains in Doped VO <sub>2</sub> Nanowires. <i>Microscopy and Microanalysis</i> , 2014, 20, 1074-1075.	0.4	0
157	Ferroelastic Domain Organization in Solution-Grown HfO <sub>2</sub> Nanorods. <i>Microscopy and Microanalysis</i> , 2014, 20, 1970-1971.	0.4	0
158	Inside and Outside: X-ray Absorption Spectroscopy Mapping of Chemical Domains in Graphene Oxide. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3144-3151.	4.6	48
159	Effective Piezoelectric Response of Substrate-Integrated ZnO Nanowire Array Devices on Galvanized Steel. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 10650-10657.	8.0	26
160	Finite size effects on the structural progression induced by lithiation of V <sub>2</sub> O <sub>5</sub> : a combined diffraction and Raman spectroscopy study. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15265.	10.3	80
161	Quantum dots exhibit less bioaccumulation than free cadmium and selenium in the earthworm <i>Eisenia andrei</i> . <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 1288-1294.	4.3	16
162	On chemical bonding and electronic structure of graphene/metal contacts. <i>Chemical Science</i> , 2013, 4, 494-502.	7.4	59

#	ARTICLE	IF	CITATIONS
163	Interactions of Aqueous Ag <sup>+</sup> with Fulvic Acids: Mechanisms of Silver Nanoparticle Formation and Investigation of Stability. <i>Environmental Science &amp; Technology</i> , 2013, 47, 757-764.	10.0	156
164	Graphene-ferromagnet interfaces: hybridization, magnetization and charge transfer. <i>Nanoscale</i> , 2013, 5, 1902.	5.6	45
165	Oriented Electrophoretic Deposition of GdOCl Nanoplatelets. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1585-1591.	2.6	21
166	Charge Disproportionation and Voltage-Induced Metal-Insulator Transitions Evidenced in $\text{Pb}_{2-x}\text{V}_2\text{O}_5$ Nanowires. <i>Advanced Functional Materials</i> , 2013, 23, 153-160.	14.9	28
167	Near-edge x-ray absorption fine structure spectroscopy study of nitrogen incorporation in chemically reduced graphene oxide. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, .	1.2	33
168	In situ near-edge x-ray absorption fine structure spectroscopy investigation of the thermal defunctionalization of graphene oxide. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, 061206.	1.2	29
169	Near-edge x-ray absorption fine structure spectroscopy studies of charge redistribution at graphene/dielectric interfaces. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, 041205.	1.2	13
170	Electrically driven metal-insulator switching in $\text{K}_x\text{V}_2\text{O}_5$ nanowires. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	9
171	From Grignard's reagents to well-defined Mg nanostructures: distinctive electrochemical and solution reduction routes. <i>Chemical Communications</i> , 2012, 48, 5169.	4.1	30
172	Elucidating the Influence of Local Structure Perturbations on the Metal-Insulator Transitions of $\text{V}_{1-x}\text{Mo}_x\text{O}_2$ Nanowires: Mechanistic Insights from an X-ray Absorption Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3728-3736.	3.1	66
173	Reversible Interconversion of a Divalent Vanadium Bronze between $\tilde{\Gamma}$ and $\tilde{\Gamma}^2$ Quasi-1D Structures. <i>Inorganic Chemistry</i> , 2012, 51, 5264-5269.	4.0	21
174	Nanotexturation-induced extreme wettability of an elemental tellurium coating. <i>Journal of Materials Chemistry</i> , 2012, 22, 3335-3339.	6.7	8
175	The effects of monovalent and divalent cations on the stability of silver nanoparticles formed from direct reduction of silver ions by Suwannee River humic acid/natural organic matter. <i>Science of the Total Environment</i> , 2012, 441, 277-289.	8.0	85
176	Soft X-ray Absorption Spectroscopy Studies of the Electronic Structure Recovery of Graphene Oxide upon Chemical Defunctionalization. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20591-20599.	3.1	65
177	Carbon nanotube/carbon nanofiber growth from industrial by-product gases on low- and high-alloy steels. <i>Carbon</i> , 2012, 50, 4722-4731.	10.3	25
178	A VO-seeded approach for the growth of star-shaped VO <sub>2</sub> and V <sub>2</sub> O <sub>5</sub> nanocrystals: facile synthesis, structural characterization, and elucidation of electronic structure. <i>CrystEngComm</i> , 2011, 13, 5328.	2.6	29
179	Colossal above-room-temperature metal-insulator switching of a Wadsley-type tunnel bronze. <i>Chemical Communications</i> , 2011, 47, 4484.	4.1	27
180	Hybrid nanocomposite coatings for corrosion protection of low carbon steel: A substrate-integrated and scalable active-passive approach. <i>Journal of Materials Research</i> , 2011, 26, 837-844.	2.6	11

#	ARTICLE	IF	CITATIONS
181	Shape-Controlled Synthesis of Well-Defined Matlockite LnOCl (Ln: La, Ce, Gd, Dy) Nanocrystals by a Novel Non-Hydrolytic Approach. <i>Inorganic Chemistry</i> , 2011, 50, 5539-5544.	4.0	59
182	A Substrate-Integrated and Scalable Templated Approach Based on Rusted Steel for the Fabrication of Polypyrrole Nanotube Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1238-1244.	8.0	16
183	An X-ray Absorption Spectroscopy Study of the Cathodic Discharge of $\text{Ag}_2\text{VO}_4\text{PO}_4$ : Geometric and Electronic Structure Characterization of Intermediate phases and Mechanistic Insights. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14437-14447.	3.1	39
184	Microscopic and Nanoscale Perspective of the Metal-Insulator Phase Transitions of $\text{VO}_2$ : Some New Twists to an Old Tale. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 745-758.	4.6	139
185	Distinctive finite size effects on the phase diagram and metal-insulator transitions of tungsten-doped vanadium(IV) oxide. <i>Journal of Materials Chemistry</i> , 2011, 21, 5580.	6.7	120
186	Imaging local electronic corrugations and doped regions in graphene. <i>Nature Communications</i> , 2011, 2, 372.	12.8	111
187	Humic Acid-Induced Silver Nanoparticle Formation Under Environmentally Relevant Conditions. <i>Environmental Science &amp; Technology</i> , 2011, 45, 3895-3901.	10.0	265
188	Single-Nanowire Raman Microprobe Studies of Doping-, Temperature-, and Voltage-Induced Metal-Insulator Transitions of $\text{W}_x\text{V}_{1-x}\text{O}_2$ Nanowires. <i>ACS Nano</i> , 2011, 5, 8861-8867.	14.6	42
189	Differences in Soil Mobility and Degradability between Water-Dispersible CdSe and CdSe/ZnS Quantum Dots. <i>Environmental Science &amp; Technology</i> , 2011, 45, 6343-6349.	10.0	31
190	Partitioning behavior and stabilization of hydrophobically coated $\text{HfO}_2$ , $\text{ZrO}_2$ and $\text{Hf}_x\text{Zr}_{1-x}\text{O}_2$ nanoparticles with natural organic matter reveal differences dependent on crystal structure. <i>Journal of Hazardous Materials</i> , 2011, 196, 302-310.	12.4	9
191	Synthesis, characterization, and finite size effects on electrical transport of nanoribbons of the charge density wave conductor $\text{NbSe}_3$ . <i>Nanotechnology</i> , 2011, 22, 485201.	2.6	15
192	Temperature and voltage driven tunable metal-insulator transition in individual $\text{W}_x\text{V}_{1-x}\text{O}_2$ nanowires. <i>ACS Nano</i> , 2011, 5, 8861-8867.	3.2	53
193	Partitioning of hydrophobic CdSe quantum dots into aqueous dispersions of humic substances: Influence of capping-group functionality on the phase-transfer mechanism. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 119-128.	9.4	27
194	Synthesis, Spectroscopic Characterization, and Observation of Massive Metal-Insulator Transitions in Nanowires of a Nonstoichiometric Vanadium Oxide Bronze. <i>Nano Letters</i> , 2010, 10, 2448-2453.	9.1	41
195	Substrate Hybridization and Rippling of Graphene Evidenced by Near-Edge X-ray Absorption Fine Structure Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1247-1253.	4.6	60
196	Controlled dielectrophoretic assembly of carbon nanotubes using real-time electrical detection. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	20
197	Fracture in electrophoretically deposited CdSe nanocrystal films. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	19
198	Catalytic Growth of Single-Crystalline $\text{V}_2\text{O}_5$ Nanowire Arrays. <i>Small</i> , 2009, 5, 1025-1029.	10.0	50

#	ARTICLE	IF	CITATIONS
199	Synthesis, Structural Characterization, and Electronic Structure of Single-Crystalline $\text{Cu}_x\text{V}_2\text{O}_5$ Nanowires. <i>Inorganic Chemistry</i> , 2009, 48, 3145-3152.	4.0	44
200	Near Edge X-ray Absorption Fine Structure Spectroscopy Studies of Single-Crystalline $\text{V}_2\text{O}_5$ Nanowire Arrays. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7639-7645.	3.1	60
201	Nonhydrolytic Synthesis and Electronic Structure of Ligand-Capped $\text{CeO}_2$ and $\text{CeOCl}$ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14126-14134.	3.1	28
202	$\text{VO}_2$ nanosheets exhibiting a well-defined metal-insulator phase transition. <i>Journal of Materials Chemistry</i> , 2009, 19, 2968.	6.7	60
203	Large-Area Chemically Modified Graphene Films: Electrophoretic Deposition and Characterization by Soft X-ray Absorption Spectroscopy. <i>Chemistry of Materials</i> , 2009, 21, 3905-3916.	6.7	265
204	Depressed Phase Transition in Solution-Grown $\text{VO}_2$ Nanostructures. <i>Journal of the American Chemical Society</i> , 2009, 131, 8884-8894.	13.7	194
205	Precursor control of crystal structure and stoichiometry in twin metal oxide nanocrystals. <i>CrystEngComm</i> , 2009, 11, 841.	2.6	17
206	Natural Organic Matter-Mediated Phase Transfer of Quantum Dots in the Aquatic Environment. <i>Environmental Science &amp; Technology</i> , 2009, 43, 677-682.	10.0	62
207	AOT dispersed single-walled carbon nanotubes for transistor device application. <i>Materials Letters</i> , 2008, 62, 843-845.	2.6	20
208	Mechanism of the Electrophoretic Deposition of CdSe Nanocrystal Films: Influence of the Nanocrystal Surface and Charge. <i>Journal of Physical Chemistry C</i> , 2008, 112, 162-171.	3.1	58
209	Viscoplastic and Granular Behavior in Films of Colloidal Nanocrystals. <i>Physical Review Letters</i> , 2007, 98, 026103.	7.8	40
210	Zeta-Potential Measurements of Surfactant-Wrapped Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13684-13690.	3.1	348
211	Effects of ozonolysis and subsequent growth of quantum dots on the electrical properties of freestanding single-walled carbon nanotube films. <i>Chemical Physics Letters</i> , 2007, 442, 354-359.	2.6	21
212	Ligand Control of Growth, Morphology, and Capping Structure of Colloidal CdSe Nanorods. <i>Chemistry of Materials</i> , 2007, 19, 2573-2580.	6.7	159
213	Purification strategies and purity visualization techniques for single-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2006, 16, 141-154.	6.7	210
214	Barium titanate nanocrystals and nanocrystal thin films: Synthesis, ferroelectricity, and dielectric properties. <i>Journal of Applied Physics</i> , 2006, 100, 034316.	2.5	120
215	Imperfect surface order and functionalization in vertical carbon nanotube arrays probed by near edge X-ray absorption fine structure spectroscopy (NEXAFS). <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 5038.	2.8	20
216	Observation of Fano asymmetry in Raman spectra of $\text{SrTiO}_3$ and $\text{Ca}_x\text{Sr}_{1-x}\text{TiO}_3$ perovskite nanocubes. <i>Applied Physics Letters</i> , 2006, 89, 223130.	3.3	72

#	ARTICLE	IF	CITATIONS
217	Raman Microprobe Analysis of Elastic Strain and Fracture in Electrophoretically Deposited CdSe Nanocrystal Films. <i>Nano Letters</i> , 2006, 6, 175-180.	9.1	34
218	Near-Edge X-ray Absorption Fine Structure Spectroscopy as a Tool for Investigating Nanomaterials. <i>Small</i> , 2006, 2, 26-35.	10.0	152
219	Precise positioning of single-walled carbon nanotubes by ac dielectrophoresis. <i>Journal of Vacuum Science &amp; Technology B</i> , 2006, 24, 3173.	1.3	62
220	Routes Towards Separating Metallic and Semiconducting Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 841-855.	0.9	47
221	Near-Edge X-ray Absorption Fine Structure Investigations of Order in Carbon Nanotube-Based Systems. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8489-8495.	2.6	76
222	Investigating the structure of boron nitride nanotubes by near-edge X-ray absorption fine structure (NEXAFS) spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1103.	2.8	38
223	Surface Chemistry and Structure of Purified, Ozonized, Multiwalled Carbon Nanotubes Probed by NEXAFS and Vibrational Spectroscopies. <i>ChemPhysChem</i> , 2004, 5, 1416-1422.	2.1	73
224	Interactions of Lanthanide Complexes with Oxidized Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2004, 16, 1855-1863.	6.7	29
225	Selective Metallic Tube Reactivity in the Solution-Phase Ozonation of Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2004, 126, 2073-2081.	13.7	137
226	Demonstration of Diameter-Selective Reactivity in the Sidewall Ozonation of SWNTs by Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2004, 4, 1445-1450.	9.1	99
227	Ozonized single-walled carbon nanotubes investigated using NEXAFS spectroscopy. Electronic supplementary information (ESI) available: experimental details of NEXAFS measurements and data processing. See <a href="http://www.rsc.org/suppdata/cc/b3/b315390h/">http://www.rsc.org/suppdata/cc/b3/b315390h/</a> . <i>Chemical Communications</i> , 2004, , 772.	4.1	85
228	Rational Chemical Strategies for Carbon Nanotube Functionalization. <i>Chemistry - A European Journal</i> , 2003, 9, 1898-1908.	3.3	299
229	Hydrothermal synthesis of perovskite nanotubes. Electronic supplementary information (ESI) available: energy-dispersive X-ray spectroscopy (EDAX) of the TiO <sub>2</sub> , BaTiO <sub>3</sub> and SrTiO <sub>3</sub> nanotubes: (a) TiO <sub>2</sub> , (b) BaTiO <sub>3</sub> and (c) SrTiO <sub>3</sub> . See <a href="http://www.rsc.org/suppdata/cc/b2/b210633g/">http://www.rsc.org/suppdata/cc/b2/b210633g/</a> . <i>Chemical Communications</i> , 2003, , 408-409.	4.1	157
230	Large-Scale Synthesis of Single-Crystalline Perovskite Nanostructures. <i>Journal of the American Chemical Society</i> , 2003, 125, 15718-15719.	13.7	281
231	In Situ Quantum Dot Growth on Multiwalled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2003, 125, 10342-10350.	13.7	164
232	Selective Borohydride Reduction Using Functionalized Atomic Force Microscopy Tips. <i>Langmuir</i> , 2002, 18, 5055-5057.	3.5	18
233	Rational Sidewall Functionalization and Purification of Single-Walled Carbon Nanotubes by Solution-Phase Ozonolysis. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12144-12151.	2.6	228
234	Functionalization of Carbon Nanotubes with a Metal-Containing Molecular Complex. <i>Nano Letters</i> , 2002, 2, 49-53.	9.1	130

#	ARTICLE	IF	CITATIONS
235	Synthesis and Characterization of Carbon Nanotube~Nanocrystal Heterostructures. Nano Letters, 2002, 2, 195-200.	9.1	343
236	Solubilization of Oxidized Single-Walled Carbon Nanotubes in Organic and Aqueous Solvents through Organic Derivatization. Nano Letters, 2002, 2, 1215-1218.	9.1	131
237	Structural Characterization, Optical Properties, and Improved Solubility of Carbon Nanotubes Functionalized with Wilkinson's Catalyst. Journal of the American Chemical Society, 2002, 124, 8940-8948.	13.7	162
238	Nanoengineered lone-pair active photocatalysts for more efficient water splitting. SPIE Newsroom, 0, , .	0.1	1
239	Nanotubes: Functionalization. , 0, , 3321-3337.		0