Stanislaus S Wong

List of Publications by Year
in descending order

174 papers	17,666 citations	12330 69 h-index	12946 131 g-index
178 all docs	178 docs citations	178 times ranked	20992 citing authors

#	Article	IF	Citations
1	Covalently functionalized nanotubes as nanometre- sized probes in chemistry and biology. Nature, 1998, 394, 52-55.	27.8	1,439
2	Size-Dependent Magnetic Properties of Single-Crystalline Multiferroic BiFeO3Nanoparticles. Nano Letters, 2007, 7, 766-772.	9.1	1,135
3	Covalent Surface Chemistry of Single-Walled Carbon Nanotubes. Advanced Materials, 2005, 17, 17-29.	21.0	1,112
4	Observation of metastable AÎ² amyloid protofibrils by atomic force microscopy. Chemistry and Biology, 1997, 4, 119-125.	6.0	644
5	Enhanced Electrocatalytic Performance of Processed, Ultrathin, Supported Pdâ€"Pt Coreâ€"Shell Nanowire Catalysts for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2011, 133, 9783-9795.	13.7	442
6	Functionalized Single-Walled Carbon Nanotubes as Rationally Designed Vehicles for Tumor-Targeted Drug Delivery. Journal of the American Chemical Society, 2008, 130, 16778-16785.	13.7	440
7	One-dimensional noble metal electrocatalysts: a promising structural paradigm for direct methanolfuelcells. Energy and Environmental Science, 2011, 4, 1161-1176.	30.8	372
8	Synthesis and Characterization of Carbon Nanotubeâ^'Nanocrystal Heterostructures. Nano Letters, 2002, 2, 195-200.	9.1	343
9	Carbon Nanotube Tips:Â High-Resolution Probes for Imaging Biological Systems. Journal of the American Chemical Society, 1998, 120, 603-604.	13.7	323
10	Environmentally Friendly Methodologies of Nanostructure Synthesis. Small, 2007, 3, 1122-1139.	10.0	314
11	Size- and Shape-Dependent Transformation of Nanosized Titanate into Analogous Anatase Titania Nanostructures. Journal of the American Chemical Society, 2006, 128, 8217-8226.	13.7	311
12	Mechanism-Based Tumor-Targeting Drug Delivery System. Validation of Efficient Vitamin Receptor-Mediated Endocytosis and Drug Release. Bioconjugate Chemistry, 2010, 21, 979-987.	3.6	301
13	Rational Chemical Strategies for Carbon Nanotube Functionalization. Chemistry - A European Journal, 2003, 9, 1898-1908.	3.3	299
14	A concise guide to sustainable PEMFCs: recent advances in improving both oxygen reduction catalysts and proton exchange membranes. Chemical Society Reviews, 2015, 44, 5836-5860.	38.1	296
15	Large-Scale Synthesis of Single-Crystalline Perovskite Nanostructures. Journal of the American Chemical Society, 2003, 125, 15718-15719.	13.7	281
16	Tailoring the composition of ultrathin, ternary alloy PtRuFe nanowires for the methanol oxidation reaction and formic acid oxidation reaction. Energy and Environmental Science, 2015, 8, 350-363.	30.8	264
17	Carbon nanotubeâ€"nanocrystal heterostructures. Chemical Society Reviews, 2009, 38, 1076.	38.1	253
18	Covalently-Functionalized Single-Walled Carbon Nanotube Probe Tips for Chemical Force Microscopy. Journal of the American Chemical Society, 1998, 120, 8557-8558.	13.7	249

#	Article	IF	Citations
19	Size-Dependent Enhancement of Electrocatalytic Performance in Relatively Defect-Free, Processed Ultrathin Platinum Nanowires. Nano Letters, 2010, 10, 2806-2811.	9.1	245
20	Functional Covalent Chemistry of Carbon Nanotube Surfaces. Advanced Materials, 2009, 21, 625-642.	21.0	238
21	Rational Sidewall Functionalization and Purification of Single-Walled Carbon Nanotubes by Solution-Phase Ozonolysis. Journal of Physical Chemistry B, 2002, 106, 12144-12151.	2.6	228
22	Block Copolymer "Crew-Cut" Micelles in Water. Macromolecules, 1994, 27, 7923-7927.	4.8	226
23	Effect of morphology of ZnO nanostructures on their toxicity to marine algae. Aquatic Toxicology, 2011, 102, 186-196.	4.0	223
24	Purification strategies and purity visualization techniques for single-walled carbon nanotubes. Journal of Materials Chemistry, 2006, 16, 141-154.	6.7	210
25	Single-walled carbon nanotube probes for high-resolution nanostructure imaging. Applied Physics Letters, 1998, 73, 3465-3467.	3.3	169
26	A Facile and Mild Synthesis of 1-D ZnO, CuO, and Î±-Fe₂O₃ Nanostructures and Nanostructured Arrays. ACS Nano, 2008, 2, 944-958.	14.6	165
27	In Situ Quantum Dot Growth on Multiwalled Carbon Nanotubes. Journal of the American Chemical Society, 2003, 125, 10342-10350.	13.7	164
28	Chemically-Sensitive Imaging in Tapping Mode by Chemical Force Microscopy:Â Relationship between Phase Lag and Adhesion. Langmuir, 1998, 14, 1508-1511.	3.5	163
29	Synthesis of classes of ternary metal oxide nanostructures. Chemical Communications, 2005, , 5721.	4.1	163
30	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
31	Hydrothermal synthesis of perovskite nanotubesElectronic supplementary information (ESI) available: energy-dispersive X-ray spectroscopy (EDAX) of the TiO2, BaTiO3 and SrTiO3 nanotubes: (a) TiO2, (b) BaTiO3 and (c) SrTiO3. See http://www.rsc.org/suppdata/cc/b2/b210633g/. Chemical Communications, 2003, , 408-409.	4.1	157
32	Role of Chemical Composition in the Enhanced Catalytic Activity of Pt-Based Alloyed Ultrathin Nanowires for the Hydrogen Oxidation Reaction under Alkaline Conditions. ACS Catalysis, 2016, 6, 3895-3908.	11.2	155
33	Ambient Large-Scale Template-Mediated Synthesis of High-Aspect Ratio Single-Crystalline, Chemically Doped Rare-Earth Phosphate Nanowires for Bioimaging. ACS Nano, 2010, 4, 99-112.	14.6	153
34	Near-Edge X-ray Absorption Fine Structure Spectroscopy as a Tool for Investigating Nanomaterials. Small, 2006, 2, 26-35.	10.0	152
35	Size-Dependent Infrared Phonon Modes and Ferroelectric Phase Transition in BiFeO₃ Nanoparticles. Nano Letters, 2010, 10, 4526-4532.	9.1	146
36	Selective Metallic Tube Reactivity in the Solution-Phase Osmylation of Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2004, 126, 2073-2081.	13.7	137

#	Article	IF	Citations
37	Controlled Synthesis of Semiconducting Metal Sulfide Nanowires. Chemistry of Materials, 2009, 21, 4541-4554.	6.7	137
38	Viable methodologies for the synthesis of high-quality nanostructures. Green Chemistry, 2011, 13, 482.	9.0	133
39	Solubilization of Oxidized Single-Walled Carbon Nanotubes in Organic and Aqueous Solvents through Organic Derivatization. Nano Letters, 2002, 2, 1215-1218.	9.1	131
40	Functionalization of Carbon Nanotubes with a Metal-Containing Molecular Complex. Nano Letters, 2002, 2, 49-53.	9.1	130
41	Synthesis and Growth Mechanism of Titanate and Titania One-Dimensional Nanostructures Self-Assembled into Hollow Micrometer-Scale Spherical Aggregates. Journal of Physical Chemistry B, 2006, 110, 702-710.	2.6	130
42	Probing Ultrathin One-Dimensional Pdâ€“Ni Nanostructures As Oxygen Reduction Reaction Catalysts. ACS Catalysis, 2014, 4, 2544-2555.	11.2	126
43	Highly Enhanced Electrocatalytic Oxygen Reduction Performance Observed in Bimetallic Palladium-Based Nanowires Prepared under Ambient, Surfactantless Conditions. Nano Letters, 2012, 12, 2013-2020.	9.1	119
44	Composition-dependent magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiFeO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m solution nanostructures. Physical Review B, 2010, 82, .	3.2	118
45	Synthesis and characterization of multiferroic BiFeO3 nanotubes. Chemical Communications, 2004, , 2708.	4.1	106
46	Optical nanocrystallography with tip-enhanced phonon Raman spectroscopy. Nature Nanotechnology, 2009, 4, 496-499.	31.5	106
47	Functionalized Carbon Nanotubes for Detecting Viral Proteins. Nano Letters, 2007, 7, 3086-3091.	9.1	101
48	Demonstration of Diameter-Selective Reactivity in the Sidewall Ozonation of SWNTs by Resonance Raman Spectroscopy. Nano Letters, 2004, 4, 1445-1450.	9.1	99
49	Synthesis and characterization of submicron single-crystalline Bi2Fe4O9 cubes. Journal of Materials Chemistry, 2005, 15, 2099.	6.7	99
50	Enhanced Electrocatalytic Performance of One-Dimensional Metal Nanowires and Arrays Generated via an Ambient, Surfactantless Synthesis. Journal of Physical Chemistry C, 2009, 113, 5460-5466.	3.1	92
51	Functionalization of carbon nanotube AFM probes using tip-activated gases. Chemical Physics Letters, 1999, 306, 219-225.	2.6	90
52	Solution-based synthetic strategies for one-dimensional metal-containing nanostructures. Chemical Communications, 2010, 46, 8093.	4.1	89
53	General, Room-Temperature Method for the Synthesis of Isolated as Well as Arrays of Single-Crystalline ABO4-Type Nanorods. Journal of the American Chemical Society, 2004, 126, 15245-15252.	13.7	85
54	Ozonized single-walled carbon nanotubes investigated using NEXAFS spectroscopyElectronic supplementary information (ESI) available: experimental details of NEXAFS measurements and data processing. See http://www.rsc.org/suppdata/cc/b3/b315390h/. Chemical Communications, 2004, , 772.	4.1	85

#	Article	IF	Citations
55	Carbon nanotube-based heterostructures for solar energy applications. Chemical Society Reviews, 2013, 42, 8134.	38.1	85
56	Electronic Structure and Chemistry of Iron-Based Metal Oxide Nanostructured Materials: A NEXAFS Investigation of BiFeO₃, Bi₂Fe₄O₉, Î±-Fe₂O₃, Î³-Fe₂O₃, and Fe/Fe₃O₄. Journal of Physical Chemistry C, 2008, 112, 10359-10369.	3.1	84
57	Effect of ozonolysis on the pore structure, surface chemistry, and bundling of single-walled carbon nanotubes. Journal of Colloid and Interface Science, 2008, 317, 375-382.	9.4	80
58	Designing Enhanced One-Dimensional Electrocatalysts for the Oxygen Reduction Reaction: Probing Size- and Composition-Dependent Electrocatalytic Behavior in Noble Metal Nanowires. Journal of Physical Chemistry Letters, 2012, 3, 3385-3398.	4.6	79
59	Correlating Size and Composition-Dependent Effects with Magnetic, MÃ¶ssbauer, and Pair Distribution Function Measurements in a Family of Catalytically Active Ferrite Nanoparticles. Chemistry of Materials, 2015, 27, 3572-3592.	6.7	77
60	Near-Edge X-ray Absorption Fine Structure Investigations of Order in Carbon Nanotube-Based Systemsâ€. Journal of Physical Chemistry B, 2005, 109, 8489-8495.	2.6	76
61	Structural and Electrochemical Characteristics of Ca-Doped â€œFlower-likeâ€• Li₄Ti₅O₁₂Motifs as High-Rate Anode Materials for Lithium-Ion Batteries. Chemistry of Materials, 2018, 30, 671-684.	6.7	76
62	Size- and Composition-Dependent Enhancement of Electrocatalytic Oxygen Reduction Performance in Ultrathin Palladiumâ€“Gold (Pd_{1â€“<i>x</i>}Au_{<i>x</i>}) Nanowires. Journal of Physical Chemistry C, 2012, 116, 15297-15306.	3.1	75
63	Surface Chemistry and Structure of Purified, Ozonized, Multiwalled Carbon Nanotubes Probed by NEXAFS and Vibrational Spectroscopies. ChemPhysChem, 2004, 5, 1416-1422.	2.1	73
64	Trap States in TiO₂ Films Made of Nanowires, Nanotubes or Nanoparticles: An Electrochemical Study. ChemPhysChem, 2012, 13, 3008-3017.	2.1	73
65	Observation of Fano asymmetry in Raman spectra of SrTiO3 and CaxSr1âˆ’xTiO3 perovskite nanocubes. Applied Physics Letters, 2006, 89, 223130.	3.3	72
66	Probing Structureâˆ’Parameter Correlations in the Molten Salt Synthesis of BaZrO3Perovskite Submicrometer-Sized Particles. Chemistry of Materials, 2007, 19, 5238-5249.	6.7	72
67	Ambient Surfactantless Synthesis, Growth Mechanism, and Size-Dependent Electrocatalytic Behavior of High-Quality, Single Crystalline Palladium Nanowires. ACS Nano, 2011, 5, 7471-7487.	14.6	72
68	Silylation of Single-Walled Carbon Nanotubes. Chemistry of Materials, 2006, 18, 4827-4839.	6.7	70
69	Surface phase transitions in BiFeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>below room temperature. Physical Review B, 2012, 85, .	3.2	70
70	Shape control and spectroscopy of crystalline BaZrO3 perovskite particles. Journal of Materials Chemistry, 2007, 17, 1707.	6.7	68
71	Fabrication and enhanced photocatalytic activity of inorganic coreâ€“shell nanofibers produced by coaxial electrospinning. Chemical Science, 2012, 3, 1262.	7.4	68
72	Properties of highly crystalline NiO and Ni nanoparticles prepared by high-temperature oxidation and reduction. Physical Review B, 2010, 81, .	3.2	67

#	Article	IF	Citations
73	Room-Temperature Preparation, Characterization, and Photoluminescence Measurements of Solid Solutions of Various Compositionally-Defined Single-Crystalline Alkaline-Earth-Metal Tungstate Nanorods. Chemistry of Materials, 2008, 20, 5500-5512.	6.7	65
74	Multifunctional Ultrathin Pd_{<i>x</i>}Cu_{1â€“<i>x</i>} and Ptâˆ¼Pd_{<i>x</i>}Cu_{1â€“<i>x</i>} One-Dimensional Nanowire Motifs for Various Small Molecule Oxidation Reactions. ACS Applied Materials & Interfaces, 2015, 7, 26145-26157.	8.0	64
75	Ambient template synthesis of multiferroic MnWO4 nanowires and nanowire arrays. Journal of Solid State Chemistry, 2008, 181, 1539-1545.	2.9	63
76	Evaluating Cytotoxicity and Cellular Uptake from the Presence of Variously Processed TiO2 Nanostructured Morphologies. Chemical Research in Toxicology, 2010, 23, 871-879.	3.3	62
77	Atomic-Scale Structure of Nanosized Titania and Titanate: Particles, Wires, and Tubes. Chemistry of Materials, 2007, 19, 6180-6186.	6.7	60
78	Morphological and Chemical Tuning of High-Energy-Density Metal Oxides for Lithium Ion Battery Electrode Applications. ACS Energy Letters, 2017, 2, 1465-1478.	17.4	56
79	Tailoring Chemical Composition To Achieve Enhanced Methanol Oxidation Reaction and Methanol-Tolerant Oxygen Reduction Reaction Performance in Palladium-Based Nanowire Systems. ACS Catalysis, 2013, 3, 2031-2040.	11.2	53
80	Synthesis and Characterization of One-Dimensional Cr₂O₃ Nanostructures. Chemistry of Materials, 2011, 23, 1000-1008.	6.7	51
81	Generalizable, Electroless, Template-Assisted Synthesis and Electrocatalytic Mechanistic Understanding of Perovskite LaNiO₃ Nanorods as Viable, Supportless Oxygen Evolution Reaction Catalysts in Alkaline Media. ACS Applied Materials & Interfaces, 2017, 9, 24634-24648.	8.0	51
82	In-Situ Growth ofâ€œFusedâ€; Ozonized Single-Walled Carbon Nanotubesâ€"CdTe Quantum Dot Junctions. Advanced Materials, 2004, 16, 34-37.	21.0	50
83	Morphology-dependent activity of Pt nanocatalysts for ethanol oxidation in acidic media: Nanowires versus nanoparticles. Electrochimica Acta, 2011, 56, 9824-9830.	5.2	50
84	Enhanced Performance of â€œFlowerâ€•likeâ€•Li₄Ti₅O₁₂ Motifs as Anode Materials for Highâ€•Rate Lithiumâ€•Ion Batteries. ChemSusChem, 2015, 8, 3304-3313.	6.8	49
85	Formation of CdSe nanocrystals onto oxidized, ozonized single-walled carbon nanotube surfacesElectronic supplementary information (ESI) available: additional HRTEM images; discussion of FT-IR and UV-visible-near IR data; XPS spectra. See http://www.rsc.org/suppdata/cc/b4/b404204b/. Chemical Communications, 2004, , 1866.	4.1	48
86	Routes Towards Separating Metallic and Semiconducting Nanotubes. Journal of Nanoscience and Nanotechnology, 2005, 5, 841-855.	0.9	47
87	In Situ Probing of the Active Site Geometry of Ultrathin Nanowires for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2015, 137, 12597-12609.	13.7	46
88	As-Prepared Single-Crystalline Hematite Rhombohedra and Subsequent Conversion into Monodisperse Aggregates of Magnetic Nanocomposites of Iron and Magnetite. Chemistry of Materials, 2006, 18, 5289-5295.	6.7	44
89	Synthesis of single-crystalline one-dimensional LiNbO3 nanowires. CrystEngComm, 2010, 12, 2675.	2.6	44
90	Ambient Synthesis of High-Quality Ruthenium Nanowires and the Morphology-Dependent Electrocatalytic Performance of Platinum-Decorated Ruthenium Nanowires and Nanoparticles in the Methanol Oxidation Reaction. ACS Applied Materials & Interfaces, 2013, 5, 5518-5530.	8.0	44

#	Article	IF	Citations
91	Improved Models for Metallic Nanoparticle Cores from Atomic Pair Distribution Function (PDF) Analysis. Journal of Physical Chemistry C, 2018, 122, 29498-29506.	3.1	41
92	Ultrathin Pt_{<i>x</i>}Sn_{1â€“<i>x</i>}Nanowires for Methanol and Ethanol Oxidation Reactions: Tuning Performance by Varying Chemical Composition. ACS Applied Nano Materials, 2018, 1, 1104-1115.	5.0	39
93	Investigating the structure of boron nitride nanotubes by near-edge X-ray absorption fine structure (NEXAFS) spectroscopy. Physical Chemistry Chemical Physics, 2005, 7, 1103.	2.8	38
94	Exploring the Room-Temperature Synthesis and Properties of Multifunctional Doped Tungstate Nanorods. Journal of Physical Chemistry C, 2008, 112, 14816-14824.	3.1	38
95	Synthesis and characterization of V2O3 nanorods. Physical Chemistry Chemical Physics, 2009, 11, 3718.	2.8	35
96	Waterâ€Dispersible, Multifunctional, Magnetic, Luminescent Silicaâ€Encapsulated Composite Nanotubes. Small, 2010, 6, 412-420.	10.0	35
97	Shape-dependent surface energetics of nanocrystalline TiO2. Journal of Materials Chemistry, 2010, 20, 8639.	6.7	34
98	Efficient Charge Separation in Multidimensional Nanohybrids. Nano Letters, 2011, 11, 4562-4568.	9.1	34
99	Synthesis, Characterization, and Stability Studies of Ge-Based Perovskites of Controllable Mixed Cation Composition, Produced with an Ambient Surfactant-Free Approach. ACS Omega, 2019, 4, 18219-18233.	3.5	33
100	Interactions of Lanthanide Complexes with Oxidized Single-Walled Carbon Nanotubes. Chemistry of Materials, 2004, 16, 1855-1863.	6.7	29
101	Controlling Nanocrystal Density and Location on Carbon Nanotube Templates. Chemistry of Materials, 2009, 21, 682-694.	6.7	29
102	Sustainable nanotechnology. Chemical Society Reviews, 2015, 44, 5755-5757.	38.1	29
103	Correlating Titania Nanostructured Morphologies with Performance as Anode Materials for Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2016, 4, 6299-6312.	6.7	29
104	Correlating the chemical composition and size of various metal oxide substrates with the catalytic activity and stability of as-deposited Pt nanoparticles for the methanol oxidation reaction. Catalysis Science and Technology, 2016, 6, 2435-2450.	4.1	29
105	Covalent Synthesis and Optical Characterization of Double-Walled Carbon Nanotubeâˆ’Nanocrystal Heterostructures. Journal of Physical Chemistry C, 2010, 114, 8766-8773.	3.1	27
106	Photoelectrochemical behaviour of anatase nanoporous films: effect of the nanoparticle organization. Nanoscale, 2010, 2, 1690.	5.6	27
107	Human epithelial cell processing of carbon and gold nanoparticles. International Journal of Nanotechnology, 2008, 5, 55.	0.2	26
108	Ultrafast Transient Absorption Studies of Hematite Nanoparticles: The Effect of Particle Shape on Exciton Dynamics. ChemSusChem, 2013, 6, 1907-1914.	6.8	26

#	Article	IF	Citations
109	Synthesis, characterization, and photocatalytic properties of pyrochlore Bi2Ti2O7 nanotubes. Journal of Materials Research, 2006, 21, 2941-2947.	2.6	25
110	Quantitative Control over Electrodeposition of Silica Films onto Single-Walled Carbon Nanotube Surfacesâ€. Journal of Physical Chemistry C, 2007, 111, 17730-17742.	3.1	25
111	Observation of Photoinduced Charge Transfer in Novel Luminescent CdSe Quantum Dotâ€“CePO₄:Tb Metal Oxide Nanowire Composite Heterostructures. Journal of Physical Chemistry C, 2014, 118, 5671-5682.	3.1	24
112	Synthesis of Compositionally Defined Single-Crystalline Eu³⁺-Activated Molybdateâ€“Tungstate Solid-Solution Composite Nanowires and Observation of Charge Transfer in a Novel Class of 1D CaMoO₄â€“CaWO₄:Eu³⁺â€“0D CdS/CdSe QD Nanoscale Heterostructures. Journal of Physical Chemistry C, 2015, 119, 3826-3842.	3.1	23
113	Synthesis and electrocatalytic applications of flower-like motifs and associated composites of nitrogen-enriched tungsten nitride (W2N3). Nano Research, 2020, 13, 1434-1443.	10.4	23
114	Probing the Dependence of Electron Transfer on Size and Coverage in Carbon Nanotubeâ€“Quantum Dot Heterostructures. Journal of Physical Chemistry C, 2015, 119, 26327-26338.	3.1	22
115	Effects of ozonolysis and subsequent growth of quantum dots on the electrical properties of freestanding single-walled carbon nanotube films. Chemical Physics Letters, 2007, 442, 354-359.	2.6	21
116	Imperfect surface order and functionalization in vertical carbon nanotube arrays probed by near edge X-ray absorption fine structure spectroscopy (NEXAFS). Physical Chemistry Chemical Physics, 2006, 8, 5038.	2.8	20
117	Morphology and dopant-dependent optical characteristics of novel composite 1D and 3D-based heterostructures of CdSe nanocrystals and LaPO₄:Re (Re = Eu, Ce, Tb) metal phosphate nanowires. RSC Advances, 2014, 4, 34963-34980.	3.6	20
118	Ligand-induced dependence of charge transfer in nanotubeâ€“quantum dot heterostructures. Nanoscale, 2016, 8, 15553-15570.	5.6	20
119	Ensuring sustainability with green nanotechnology. Nanotechnology, 2012, 23, 290201-290201.	2.6	19
120	Probing charge transfer in a novel class of luminescent perovskite-based heterostructures composed of quantum dots bound to RE-activated CaTiO3 phosphors. Nanoscale, 2016, 8, 2129-2142.	5.6	19
121	Metal chalcogenide quantum dot-sensitized 1D-based semiconducting heterostructures for optical-related applications. Energy and Environmental Science, 2019, 12, 1454-1494.	30.8	19
122	Solutionâ€Based, Anionâ€Doping of Li₄Ti₅O₁₂ Nanoflowers for Lithiumâ€Ion Battery Applications. Chemistry - A European Journal, 2020, 26, 9389-9402.	3.3	19
123	Selective Borohydride Reduction Using Functionalized Atomic Force Microscopy Tips. Langmuir, 2002, 18, 5055-5057.	3.5	18
124	Synthesis, properties, and formation mechanism of Mn-doped Zn₂SiO₄ nanowires and associated heterostructures. Physical Chemistry Chemical Physics, 2018, 20, 10086-10099.	2.8	18
125	Correlating titania morphology and chemical composition with dye-sensitized solar cell performance. Nanotechnology, 2011, 22, 245402.	2.6	17
126	Synthesis, characterization, and luminescence properties of magnesium coordination networks using a thiophene-based linker. Inorganica Chimica Acta, 2011, 378, 109-114.	2.4	17

#	Article	IF	Citations
127	Magnetic and MÃ¶ssbauer characterization of the magnetic properties of single-crystalline sub-micron sized Bi2Fe4O9 cubes. Current Applied Physics, 2015, 15, 417-422.	2.4	17
128	Chemical Strategies for Enhancing Activity and Charge Transfer in Ultrathin Pt Nanowires Immobilized onto Nanotube Supports for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 34280-34294.	8.0	16
129	Toward a Reliable Synthesis of Strontium Ruthenate: Parameter Control and Property Investigation of Submicrometer-Sized Structures. Chemistry of Materials, 2011, 23, 3277-3288.	6.7	15
130	Ultrathin Metallic Nanowire-Based Architectures as High-Performing Electrocatalysts. ACS Omega, 2018, 3, 3294-3313.	3.5	15
131	Nanoscale Perovskites as Catalysts and Supports for Direct Methanol Fuel Cells. Chemistry - A European Journal, 2019, 25, 7779-7797.	3.3	15
132	Research Update: Synthesis, properties, and applications of ultrathin metallic nanowires and associated heterostructures. APL Materials, 2015, 3, .	5.1	14
133	Understanding the Effect of Preparative Approaches in the Formation of â€œFlower-likeâ€• Li4Ti5O12â€”Multiwalled Carbon Nanotube Composite Motifs with Performance as High-Rate Anode Materials for Li-Ion Battery Applications. Journal of the Electrochemical Society, 2017, 164, A524-A534.	2.9	14
134	Electron-beam-induced-current and active secondary-electron voltage-contrast with aberration-corrected electron probes. Ultramicroscopy, 2017, 176, 80-85.	1.9	14
135	Narrow Mie Optical Cavity Resonances from Individual 100 nm Hematite Crystallites. Journal of Physical Chemistry B, 2001, 105, 599-603.	2.6	13
136	Correlating Preparative Approaches with Electrochemical Performance of Fe₃O₄-MWNT Composites Used as Anodes in Li-Ion Batteries. ECS Journal of Solid State Science and Technology, 2017, 6, M3122-M3131.	1.8	13
137	Synthesis, Structural Characterization, and Growth Mechanism of Li_{1+<i>x</i>}V₃O₈ Submicron Fibers for Lithium-Ion Batteries. Crystal Growth and Design, 2018, 18, 2055-2066.	3.0	13
138	Probing Structure-Induced Optical Behavior in a New Class of Self-Activated Luminescent 0D/1D CaWO₄ Metal Oxideâ€“CdSe Nanocrystal Composite Heterostructures. Chemistry of Materials, 2015, 27, 778-792.	6.7	12
139	Observation of Ferroelectricity and Structure-Dependent Magnetic Behavior in Novel One-Dimensional Motifs of Pure, Crystalline Yttrium Manganese Oxides. Journal of Physical Chemistry C, 2014, 118, 21695-21705.	3.1	11
140	Ambient synthesis, characterization, and electrochemical activity of LiFePO4 nanomaterials derived from iron phosphate intermediates. Nano Research, 2015, 8, 2573-2594.	10.4	10
141	Impact of Synthesis Method on Phase Transformations of Layered Lithium Vanadium Oxide upon Electrochemical (De)lithiation. Journal of the Electrochemical Society, 2019, 166, A771-A778.	2.9	10
142	Optimized Microwave-Based Synthesis of Thermally Stable Inverse Catalytic Coreâ€“shell Motifs for CO2 Hydrogenation. ACS Applied Materials & Interfaces, 2020, 12, 32591-32603.	8.0	10
143	Synthesis-driven, structure-dependent optical behavior in phase-tunable NaYF₄:Yb,Er-based motifs and associated heterostructures. Physical Chemistry Chemical Physics, 2017, 19, 2153-2167.	2.8	9
144	A Generalizable Multigram Synthesis and Mechanistic Investigation of YMnO₃ Nanoplates. Industrial & Engineering Chemistry Research, 2017, 56, 5573-5585.	3.7	9

#	Article	IF	Citations
145	Examining the Role of Anisotropic Morphology: Comparison of Free-Standing Magnetite Nanorods versus Spherical Magnetite Nanoparticles for Electrochemical Lithium-Ion Storage. ACS Applied Energy Materials, 2019, 2, 4801-4812.	5.1	9
146	Microwave-Based Synthesis of Functional Morphological Variants and Carbon Nanotube-Based Composites of VS₄ for Electrochemical Applications. ACS Sustainable Chemistry and Engineering, 2020, 8, 16397-16412.	6.7	9
147	Probing differential optical and coverage behavior in nanotubeâ€"nanocrystal heterostructures synthesized by covalent versus non-covalent approaches. Dalton Transactions, 2014, 43, 7480.	3.3	8
148	Lanthanum-based double perovskite nanoscale motifs as support media for the methanol oxidation reaction. Catalysis Science and Technology, 2022, 12, 613-629.	4.1	8
149	Absence of cytotoxicity towards microglia of iron oxide (Î±-Fe2O3) nanorhombohedra. Toxicology Research, 2016, 5, 836-847.	2.1	7
150	Exploring Strategies toward Synthetic Precision Control within Coreâ€"Shell Nanowires. Accounts of Chemical Research, 2021, 54, 2565-2578.	15.6	7
151	Microwave-Assisted Synthesis of Cu@IrO₂ Core-Shell Nanowires for Low-Temperature Methane Conversion. ACS Applied Nano Materials, 2021, 4, 11145-11158.	5.0	7
152	Effects of electronic correlation, physical structure, and surface termination on the electronic structure of V<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>nanowires. Physical Review B, 2012, 86, .	3.2	6
153	Multifunctional Nanochemistry: Ambient, Electroless, Templateâ€Based Synthesis and Characterization of Segmented Bimetallic Pd/Au and Pd/Pt Nanowires as Highâ€Performance Electrocatalysts and Nanomotors. Israel Journal of Chemistry, 2012, 52, 1090-1103.	2.3	6
154	Synthesis, Characterization, and Formation Mechanism of Crystalline Cu and Ni Metallic Nanowires under Ambient, Seedless, Surfactantless Conditions. Crystal Growth and Design, 2014, 14, 3825-3838.	3.0	6
155	Structural phase transitions in SrTiO3 nanoparticles. Applied Physics Letters, 2017, 111, .	3.3	6
156	Reconciling structure prediction of alloyed, ultrathin nanowires with spectroscopy. Chemical Science, 2021, 12, 7158-7173.	7.4	6
157	Assessing the Catalytic Behavior of Platinum Group Metal-Based Ultrathin Nanowires Using X-ray Absorption Spectroscopy. ACS Applied Materials & Interfaces, 2021, 13, 58253-58260.	8.0	6
158	Quantitatively Probing the Means of Controlling Nanoparticle Assembly on Surfaces. Langmuir, 2011, 27, 5792-5805.	3.5	5
159	Size-dependent vibronic coupling in Î±-Fe2O3. Journal of Chemical Physics, 2014, 141, 044710.	3.0	5
160	Publisherâ€™s note. Ultramicroscopy, 2017, 177, 14-19.	1.9	5
161	Utilizing Electrical Characteristics of Individual Nanotube Devices to Study the Charge Transfer between CdSe Quantum Dots and Double-Walled Nanotubes. ACS Energy Letters, 2017, 2, 717-725.	17.4	5
162	Impact of the surface phase transition on magnon and phonon excitations in BiFeO3 nanoparticles. Applied Physics Letters, 2020, 116, .	3.3	5

#	Article	IF	Citations
163	Devising novel methods for the controlled synthesis with morphology and size control of scintillator materials. Journal of Materials Chemistry C, 2020, 8, 8622-8634.	5.5	5
164	Surfactant-Free Synthesis of Three-Dimensional Perovskite Titania-Based Micron-Scale Motifs Used as Catalytic Supports for the Methanol Oxidation Reaction. Molecules, 2021, 26, 909.	3.8	5
165	Forum on Artificial Intelligence/Machine Learning for Design and Development of Applied Materials. ACS Applied Materials & Interfaces, 2021, 13, 53301-53302.	8.0	5
166	Effects of single walled carbon nanotubes on the electroluminescent performance of organic light-emitting diodes. Organic Electronics, 2011, 12, 1098-1102.	2.6	4
167	Synthesis, characterization, and growth mechanism of motifs of ultrathin cobalt-substituted NaFeSi₂O₆ nanowires. CrystEngComm, 2018, 20, 223-236.	2.6	4
168	Chemically Tunable, Allâ€Inorganicâ€Based Whiteâ€Light Emitting 0Dâ€“1D Heterostructures. Advanced Optical Materials, 2017, 5, 1700089.	7.3	3
169	Studying Catalytically Viable Single-Crystalline Metal Oxide Nanorods Using Synchrotron-Based Scanning Hard X-ray Microscopy. Journal of Physical Chemistry C, 2019, 123, 17185-17195.	3.1	3
170	Probing the Physicochemical Behavior of Variously Doped Li₄Ti₅O₁₂Nanoflowers. ACS Physical Chemistry Au, 2022, 2, 331-345.	4.0	2
171	Yttrium-based Double Perovskite Nanorods for Electrocatalysis. ACS Applied Materials & Interfaces, 2022, 14, 30914-30926.	8.0	2
172	Blocking gC1q-Receptor Protein Alters L. monocytogenes Invasion in Caco-2 Cells. Microscopy and Microanalysis, 2004, 10, 1530-1531.	0.4	1
173	Magnetochromic sensing and size-dependent collective excitations in iron oxide nanoparticles. Physical Review B, 2017, 95, .	3.2	1
174	Frontispiece: Nanoscale Perovskites as Catalysts and Supports for Direct Methanol Fuel Cells. Chemistry - A European Journal, 2019, 25, .	3.3	0