

Richard D Tilley

List of Publications by Year in descending order

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213
papers

9,932
citations

34076

52
h-index

43868

91
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224
all docs

224
docs citations

224
times ranked

13092
citing authors

#	ARTICLE	IF	CITATIONS
1	Wafer-scale quasi-layered tungstate-doped polypyrrole film with high volumetric capacitance. Nano Research, 2023, 16, 4895-4900.	5.8	3
2	Calibrating SECCM measurements by means of a nanoelectrode ruler. The intrinsic oxygen reduction activity of PtNi catalyst nanoparticles. Nano Research, 2022, 15, 1564-1569.	5.8	8
3	Quantum Dot Passivation of Halide Perovskite Films with Reduced Defects, Suppressed Phase Segregation, and Enhanced Stability. Advanced Science, 2022, 9, e2102258.	5.6	35
4	Optical Nanopore Sensors for Quantitative Analysis. Nano Letters, 2022, 22, 869-880.	4.5	19
5	A single-Pt-atom-on-Ru-nanoparticle electrocatalyst for CO-resilient methanol oxidation. Nature Catalysis, 2022, 5, 231-237.	16.1	133
6	A Transparent Semiconducting Surface for Capturing and Releasing Single Cells from a Complex Cell Mixture. ACS Applied Materials & Interfaces, 2022, 14, 18079-18086.	4.0	4
7	Rapid and ultrasensitive electrochemical detection of DNA methylation for ovarian cancer diagnosis. Biosensors and Bioelectronics, 2022, 206, 114126.	5.3	18
8	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste. , 2022, 4, 120-127.		7
9	Biomolecular Binding under Confinement: Statistical Predictions of Steric Influence in Absence of Long-Distance Interactions. ChemPhysChem, 2022, 23, .	1.0	1
10	Highly efficient and stable Ru nanoparticle electrocatalyst for the hydrogen evolution reaction in alkaline conditions. Catalysis Science and Technology, 2022, 12, 3606-3613.	2.1	5
11	The Influence of Nanoconfinement on Electrocatalysis. Angewandte Chemie - International Edition, 2022, 61, .	7.2	74
12	Synthetic Strategies to Enhance the Electrocatalytic Properties of Branched Metal Nanoparticles. Accounts of Chemical Research, 2022, 55, 1693-1702.	7.6	12
13	Understanding and modelling the magnitude of the change in current of nanopore sensors. Chemical Society Reviews, 2022, 51, 5757-5776.	18.7	14
14	Feasibility of Silicon Quantum Dots as a Biomarker for the Bioimaging of Tear Film. Nanomaterials, 2022, 12, 1965.	1.9	6
15	Introducing Stacking Faults into Three-Dimensional Branched Nickel Nanoparticles for Improved Catalytic Activity. Journal of the American Chemical Society, 2022, 144, 11094-11098.	6.6	27
16	Electrocatalysis in confined space. Current Opinion in Electrochemistry, 2021, 25, 100644.	2.5	8
17	Impact of the Coverage of Aptamers on a Nanoparticle on the Binding Equilibrium and Kinetics between Aptamer and Protein. ACS Sensors, 2021, 6, 538-545.	4.0	19
18	Rapid and ultrasensitive electrochemical detection of circulating tumor DNA by hybridization on the network of gold-coated magnetic nanoparticles. Chemical Science, 2021, 12, 5196-5201.	3.7	53

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19	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , 2021, 12, 466.	5.8	176
20	Investigating Spatial Heterogeneity of Nanoparticles Movement in Live Cells with Pair-Correlation Microscopy and Phasor Analysis. <i>Analytical Chemistry</i> , 2021, 93, 3803-3812.	3.2	4
21	Role of the Secondary Metal in Ordered and Disordered Pt ₃ Sn Nanocubes for the Electrocatalytic Methanol Oxidation. <i>ACS Catalysis</i> , 2021, 11, 2235-2243.	5.5	42
22	Formation of Si-Rich Interfaces by Radiation-Induced Diffusion and Microsegregation in CrN/ZrN Nanolayer Coating. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16928-16938.	4.0	21
23	Ligand-Promoted Cooperative Electrochemical Oxidation of Bio-Alcohol on Distorted Cobalt Hydroxides for Bio-Hydrogen Extraction. <i>ChemSusChem</i> , 2021, 14, 2612-2620.	3.6	6
24	Can the Shape of Nanoparticles Enable the Targeting to Cancer Cells over Healthy Cells?. <i>Advanced Functional Materials</i> , 2021, 31, 2007880.	7.8	20
25	Albendazole Release from Silica-Chitosan Nanospheres. In Vitro Study on Cervix Cancer Cell Lines. <i>Polymers</i> , 2021, 13, 1945.	2.0	7
26	Functionalized Gold Nanorod Probes: A Sophisticated Design of SERS Immunoassay for Biodetection in Complex Media. <i>Analytical Chemistry</i> , 2021, 93, 12954-12965.	3.2	19
27	Is Cu instability during the CO ₂ reduction reaction governed by the applied potential or the local CO concentration?. <i>Chemical Science</i> , 2021, 12, 4028-4033.	3.7	42
28	Monitoring the heterogeneity in single cell responses to drugs using electrochemical impedance and electrochemical noise. <i>Chemical Science</i> , 2021, 12, 2558-2566.	3.7	3
29	EFFECT OF COMPOSITION AND GROWTH MECHANISM ON THE STRUCTURE FORMATION AND FUNCTIONAL PROPERTIES OF TiAlSiYN/MoN NANOLAYER-THICK COATING. <i>High Temperature Material Processes</i> , 2021, 25, 31-51.	0.2	1
30	Ultrasensitive detection of programmed death-ligand 1 (PD-L1) in whole blood using dispersible electrodes. <i>Chemical Communications</i> , 2021, 57, 2559-2562.	2.2	13
31	Synthesis of gold-coated magnetic conglomerate nanoparticles with a fast magnetic response for bio-sensing. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1034-1043.	2.7	9
32	Controlling hydrogen evolution reaction activity on Ni core-Pt island nanoparticles by tuning the size of the Pt islands. <i>Chemical Communications</i> , 2021, 57, 2788-2791.	2.2	8
33	Key Parameters That Determine the Magnitude of the Decrease in Current in Nanopore Blockade Sensors. <i>Nano Letters</i> , 2021, 21, 9374-9380.	4.5	1
34	How to exploit different endocytosis pathways to allow selective delivery of anticancer drugs to cancer cells over healthy cells. <i>Chemical Science</i> , 2021, 12, 15407-15417.	3.7	8
35	Combining Nanoconfinement in Ag Core/Porous Cu Shell Nanoparticles with Gas Diffusion Electrodes for Improved Electrocatalytic Carbon Dioxide Reduction. <i>ChemElectroChem</i> , 2021, 8, 4848-4853.	1.7	19
36	Zero-valent iron core-iron oxide shell nanoparticles coated with silica and gold with high saturation magnetization. <i>Chemical Communications</i> , 2021, 57, 13142-13145.	2.2	4

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37	Spiers Memorial Lecture. Next generation nanoelectrochemistry: the fundamental advances needed for applications. <i>Faraday Discussions</i> , 2021, 233, 10-32.	1.6	12
38	How Nanoparticles Transform Single Molecule Measurements into Quantitative Sensors. <i>Advanced Materials</i> , 2020, 32, e1904339.	11.1	30
39	The importance of nanoscale confinement to electrocatalytic performance. <i>Chemical Science</i> , 2020, 11, 1233-1240.	3.7	39
40	Optical tweezers-based characterisation of gold core-satellite plasmonic nano-assemblies incorporating thermo-responsive polymers. <i>Nanoscale</i> , 2020, 12, 1680-1687.	2.8	19
41	Gold nanoparticles immobilised in a superabsorbent hydrogel matrix: facile synthesis and application for the catalytic reduction of toxic compounds. <i>Chemical Communications</i> , 2020, 56, 1263-1266.	2.2	15
42	Heterojunctions Based on Amorphous Silicon: A Versatile Surface Engineering Strategy To Tune Peak Position of Redox Monolayers on Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 836-844.	1.5	15
43	Single particle detection of protein molecules using dark-field microscopy to avoid signals from nonspecific adsorption. <i>Biosensors and Bioelectronics</i> , 2020, 169, 112612.	5.3	13
44	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. <i>ACS Energy Letters</i> , 2020, 5, 3560-3568.	8.8	70
45	Photochemical upconversion of near-infrared light from below the silicon bandgap. <i>Nature Photonics</i> , 2020, 14, 585-590.	15.6	88
46	Porous Graphene Oxide Films Prepared via the Breath-Figure Method: A Simple Strategy for Switching Access of Redox Species to an Electrode Surface. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55181-55188.	4.0	11
47	Synthetic Bilayers on Mica from Self-Assembly of Hydrogen-Bonded Triazines. <i>Langmuir</i> , 2020, 36, 13301-13311.	1.6	1
48	Design guidelines for transition metals as interstitial emitters in silicon nanocrystals to tune photoluminescence properties: zinc as biocompatible example. <i>Nanoscale</i> , 2020, 12, 19340-19349.	2.8	0
49	Controlling the Number of Branches and Surface Facets of Pd-Core Ru-Branched Nanoparticles to Make Highly Active Oxygen Evolution Reaction Electrocatalysts. <i>Chemistry - A European Journal</i> , 2020, 26, 15501-15504.	1.7	5
50	Magnetic nanoparticles as MRI contrast agents for the diagnosis of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e041609.	0.4	1
51	Surface Patterning of Biomolecules Using Click Chemistry and Light-Activated Electrochemistry to Locally Generate Cu(I). <i>ChemElectroChem</i> , 2020, 7, 4245-4250.	1.7	3
52	Selectively detecting attomolar concentrations of proteins using gold lined nanopores in a nanopore blockade sensor. <i>Chemical Science</i> , 2020, 11, 12570-12579.	3.7	25
53	High-resolution light-activated electrochemistry on amorphous silicon-based photoelectrodes. <i>Chemical Communications</i> , 2020, 56, 7435-7438.	2.2	9
54	Facettierte verzweigte Nickel-Nanopartikel mit variierbarer Verzweigungslänge für die hochaktive elektrokatalytische Oxidation von Biomasse. <i>Angewandte Chemie</i> , 2020, 132, 15615-15620.	1.6	18

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55	Facile synthesis of Ge _{1-x} Sn _x nanowires. <i>Materials Research Express</i> , 2020, 7, 064004.	0.8	1
56	Nanoparticles as contrast agents for the diagnosis of Alzheimer's disease: a systematic review. <i>Nanomedicine</i> , 2020, 15, 725-743.	1.7	26
57	Increasing the Formation of Active Sites on Highly Crystalline Co Branched Nanoparticles for Improved Oxygen Evolution Reaction Electrocatalysis. <i>ChemCatChem</i> , 2020, 12, 3126-3131.	1.8	6
58	Zero valent iron core-iron oxide shell nanoparticles as small magnetic particle imaging tracers. <i>Chemical Communications</i> , 2020, 56, 3504-3507.	2.2	22
59	Preserving the Exposed Facets of Pt ₃ Sn Intermetallic Nanocubes During an Order to Disorder Transition Allows the Elucidation of the Effect of the Degree of Alloy Ordering on Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 3231-3239.	6.6	57
60	Nanoscale architecture of (CrN/ZrN)/(Cr/Zr) nanocomposite coatings: Microstructure, composition, mechanical properties and first-principles calculations. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154808.	2.8	34
61	Patterned Molecular Films of Alkanethiol and PLL-PEG on Gold-Silicate Interfaces: How to Add Functionalities while Retaining Effective Antifouling. <i>Langmuir</i> , 2020, 36, 5243-5250.	1.6	9
62	Spatially localized electrodeposition of multiple metals via light-activated electrochemistry for surface enhanced Raman spectroscopy applications. <i>Chemical Communications</i> , 2020, 56, 5831-5834.	2.2	3
63	Functionalized Silicon Electrodes in Electrochemistry. <i>Annual Review of Analytical Chemistry</i> , 2020, 13, 135-158.	2.8	17
64	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for High Activity Electrocatalytic Oxidation of Biomass. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15487-15491.	7.2	83
65	Controlling Pt Crystal Defects on the Surface of Ni-Pt Core-Shell Nanoparticles for Active and Stable Electrocatalysts for Oxygen Reduction. <i>ACS Applied Nano Materials</i> , 2020, 3, 5995-6000.	2.4	15
66	Recent Development in Focused Ion Beam Nanofabrication. , 2019, , 327-356.		4
67	Synthesis of low- and high-index faceted metal (Pt, Pd, Ru, Ir, Rh) nanoparticles for improved activity and stability in electrocatalysis. <i>Nanoscale</i> , 2019, 11, 18995-19011.	2.8	110
68	Observing the Reversible Single Molecule Electrochemistry of Alexa Fluor 647 Dyes by Total Internal Reflection Fluorescence Microscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14495-14498.	7.2	15
69	High-throughput chemical and chemoenzymatic approaches to saccharide-coated magnetic nanoparticles for MRI. <i>Nanoscale Advances</i> , 2019, 1, 3597-3606.	2.2	6
70	The impact of nanoparticle shape on cellular internalisation and transport: what do the different analysis methods tell us?. <i>Materials Horizons</i> , 2019, 6, 1538-1547.	6.4	97
71	Antibacterial Effect of Au Implantation in Ductile Nanocomposite Multilayer (TiAlSiY)N/CrN Coatings. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48540-48550.	4.0	36
72	Advances in the Application of Magnetic Nanoparticles for Sensing. <i>Advanced Materials</i> , 2019, 31, e1904385.	11.1	234

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73	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. <i>Nature Communications</i> , 2019, 10, 4645.	5.8	76
74	Observing the Reversible Single Molecule Electrochemistry of Alexa Fluor 647 Dyes by Total Internal Reflection Fluorescence Microscopy. <i>Angewandte Chemie</i> , 2019, 131, 14637-14640.	1.6	5
75	Electrochemical Reduction of CO ₂ on Nitrogen-Doped Carbon Catalysts With and Without Iron. <i>ChemElectroChem</i> , 2019, 6, 4626-4636.	1.7	17
76	Controlling Metallic Nanoparticle Redox Properties for Improved Methanol Oxidation Reaction Electrocatalysis. <i>ChemCatChem</i> , 2019, 11, 5989-5993.	1.8	4
77	Cascade Reactions in Nanozymes: Spatially Separated Active Sites inside Ag-Core/Porous-Cu-Shell Nanoparticles for Multistep Carbon Dioxide Reduction to Higher Organic Molecules. <i>Journal of the American Chemical Society</i> , 2019, 141, 14093-14097.	6.6	139
78	Direct Growth of Highly Strained Pt Islands on Branched Ni Nanoparticles for Improved Hydrogen Evolution Reaction Activity. <i>Journal of the American Chemical Society</i> , 2019, 141, 16202-16207.	6.6	113
79	Amorphous silicon on indium tin oxide: a transparent electrode for simultaneous light activated electrochemistry and optical microscopy. <i>Chemical Communications</i> , 2019, 55, 123-126.	2.2	15
80	Stimulation and Repair of Peripheral Nerves Using Bioadhesive Graft-Antenna. <i>Advanced Science</i> , 2019, 6, 1801212.	5.6	20
81	Intrinsic and well-defined second generation hot spots in gold nanobipyramids versus gold nanorods. <i>Chemical Communications</i> , 2019, 55, 7707-7710.	2.2	24
82	Microwave-assisted synthesis of black phosphorus quantum dots: efficient electrocatalyst for oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12974-12978.	5.2	56
83	Electron microscopy and its role in advanced lithium-ion battery research. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1623-1646.	2.5	25
84	Formation of Branched Ruthenium Nanoparticles for Improved Electrocatalysis of Oxygen Evolution Reaction. <i>Small</i> , 2019, 15, e1804577.	5.2	54
85	Raspberry-like small multicore gold nanostructures for efficient photothermal conversion in the first and second near-infrared windows. <i>Chemical Communications</i> , 2019, 55, 4055-4058.	2.2	20
86	The use of a personal glucose meter for detecting procalcitonin through glucose encapsulated within liposomes. <i>Analyst</i> , 2019, 144, 6225-6230.	1.7	18
87	Ultrathin Fe-N Nanosheets Coordinated Fe-Doped CoNi Alloy Nanoparticles for Electrochemical Water Splitting. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800252.	1.2	21
88	Challenges and Solutions in Developing Ultrasensitive Biosensors. <i>Journal of the American Chemical Society</i> , 2019, 141, 1162-1170.	6.6	200
89	Simultaneous Functionalization of Carbon Surfaces with Rhodium and Iridium Organometallic Complexes: Hybrid Bimetallic Catalysts for Hydroamination. <i>Organometallics</i> , 2019, 38, 780-787.	1.1	17
90	From the inside-out: leached metal impurities in multiwall carbon nanotubes for purification or electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4686-4694.	5.2	23

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91	Dual Signaling DNA Electrochemistry: An Approach To Understand DNA Interfaces. Langmuir, 2018, 34, 1249-1255.	1.6	16
92	Real-Time Synchrotron Small-Angle X-ray Scattering Studies of Collagen Structure during Leather Processing. Industrial & Engineering Chemistry Research, 2018, 57, 63-69.	1.8	18
93	Electrocatalytic Nanoparticles That Mimic the Three-Dimensional Geometric Architecture of Enzymes: Nanozymes. Journal of the American Chemical Society, 2018, 140, 13449-13455.	6.6	72
94	Cubic-Core Hexagonal-Branch Mechanism To Synthesize Bimetallic Branched and Faceted Pd@Ru Nanoparticles for Oxygen Evolution Reaction Electrocatalysis. Journal of the American Chemical Society, 2018, 140, 12760-12764.	6.6	82
95	Imaging of Tear Film Lipids Using Quantum Dots. , 2018, , .		0
96	Understanding the Effect of Au in Au@Pd Bimetallic Nanocrystals on the Electrocatalysis of the Methanol Oxidation Reaction. Journal of Physical Chemistry C, 2018, 122, 21718-21723.	1.5	43
97	Rod-shaped mesoporous silica nanoparticles for nanomedicine: recent progress and perspectives. Expert Opinion on Drug Delivery, 2018, 15, 881-892.	2.4	55
98	Largely Enhanced Mobility in Trilayered LaAlO ₃ /SrTiO ₃ /LaAlO ₃ Heterostructures. ACS Applied Materials & Interfaces, 2018, 10, 20950-20958.	4.0	3
99	A rapid readout for many single plasmonic nanoparticles using dark-field microscopy and digital color analysis. Biosensors and Bioelectronics, 2018, 117, 530-536.	5.3	41
100	Pd@Ru core-shell nanoparticles with tunable shell thickness for active and stable oxygen evolution performance. Nanoscale, 2018, 10, 15173-15177.	2.8	42
101	Nucleic acid hybridization on an electrically reconfigurable network of gold-coated magnetic nanoparticles enables microRNA detection in blood. Nature Nanotechnology, 2018, 13, 1066-1071.	15.6	244
102	Synthesis, optical properties and theoretical modelling of discrete emitting states in doped silicon nanocrystals for bioimaging. Nanoscale, 2018, 10, 15600-15607.	2.8	13
103	Three-Dimensional Branched and Faceted Gold@Ruthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. Angewandte Chemie, 2018, 130, 10398-10402.	1.6	21
104	Three-Dimensional Branched and Faceted Gold@Ruthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. Angewandte Chemie - International Edition, 2018, 57, 10241-10245.	7.2	83
105	Solution Synthesis, Surface Passivation, Optical Properties, Biomedical Applications, and Cytotoxicity of Silicon and Germanium Nanocrystals. ChemPlusChem, 2017, 82, 60-73.	1.3	43
106	Preparation, characterization and in vitro biological evaluation of (1:2) phenoxodiol- β -cyclodextrin complex. Carbohydrate Polymers, 2017, 165, 444-454.	5.1	24
107	Colloidal silicon quantum dots: from preparation to the modification of self-assembled monolayers for bioimaging and sensing applications. , 2017, , .		3
108	Stability of polyelectrolyte-coated iron nanoparticles for T ₂ -weighted magnetic resonance imaging. Journal of Magnetism and Magnetic Materials, 2017, 439, 251-258.	1.0	18

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109	Role of Surface Capping Molecule Polarity on the Optical Properties of Solution Synthesized Germanium Nanocrystals. <i>Langmuir</i> , 2017, 33, 8790-8798.	1.6	4
110	Predicting the role of seed morphology in the evolution of anisotropic nanocatalysts. <i>Nanoscale</i> , 2017, 9, 1502-1510.	2.8	10
111	Size and shape evolution of highly magnetic iron nanoparticles from successive growth reactions. <i>Chemical Communications</i> , 2017, 53, 11548-11551.	2.2	22
112	Nanoscale upconversion for oxygen sensing. <i>Materials Science and Engineering C</i> , 2017, 70, 76-84.	3.8	26
113	Protease sensing using nontoxic silicon quantum dots. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	1.4	13
114	Upconverter-powered oxygen sensing in electrospun polymeric bilayers. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 197-205.	4.0	5
115	Gold coated magnetic nanoparticles: from preparation to surface modification for analytical and biomedical applications. <i>Chemical Communications</i> , 2016, 52, 7528-7540.	2.2	188
116	Light-activated electrochemistry on alkyne-terminated Si(100) surfaces towards solution-based redox probes. <i>Electrochimica Acta</i> , 2016, 213, 540-546.	2.6	13
117	Electrocatalysis: Understanding platinum migration. <i>Nature Energy</i> , 2016, 1, .	19.8	11
118	Gecko-inspired chitosan adhesive for tissue repair. <i>NPG Asia Materials</i> , 2016, 8, e280-e280.	3.8	50
119	Carbon supported Au@Pd core-shell nanoparticles for hydrogen production by alcohol electroreforming. <i>Catalysis Science and Technology</i> , 2016, 6, 6870-6878.	2.1	42
120	Stability of Chemically Passivated Silicon Electrodes in Aqueous Solutions: Interplay between Bias Voltage and Hydration of the Electrolyte. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15941-15948.	1.5	15
121	Synthesis and catalytic properties of highly branched palladium nanostructures using seeded growth. <i>Nanoscale</i> , 2016, 8, 2867-2874.	2.8	21
122	ZnO/PVP nanoparticles induce gelation in type I collagen. <i>European Polymer Journal</i> , 2016, 75, 399-405.	2.6	13
123	Structural and magnetic studies of Co-Ti-substituted magnetoplumbite-type (M-type) strontium ferrites by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 77, 306-314.	1.1	3
124	Dynamic evolution of specific catalytic sites on Pt nanoparticles. <i>Catalysis Science and Technology</i> , 2016, 6, 144-151.	2.1	23
125	Cell-targeted platinum nanoparticles and nanoparticle clusters. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6567-6572.	1.5	11
126	Gold over Branched Palladium Nanostructures for Photothermal Cancer Therapy. <i>ACS Nano</i> , 2015, 9, 12283-12291.	7.3	102

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127	Application of novel iron core/iron oxide shell nanoparticles to sentinel lymph node identification. Proceedings of SPIE, 2015, , .	0.8	0
128	How to choose a precursor for decomposition solution-phase synthesis: the case of iron nanoparticles. Nanoscale, 2015, 7, 5951-5954.	2.8	22
129	Solution Synthesis and Optical Properties of Transition-Metal-Doped Silicon Nanocrystals. Journal of Physical Chemistry Letters, 2015, 6, 1573-1576.	2.1	25
130	One-Pot Synthesis of Functionalized Noble Metal Nanoparticles Using a Rationally Designed Phosphopeptide. Particle and Particle Systems Characterization, 2014, 31, 971-975.	1.2	4
131	Simple Ligand Exchange Reactions Enabling Excellent Dispersibility and Stability of Magnetic Nanoparticles in Polar Organic, Aromatic, and Protic Solvents. Langmuir, 2014, 30, 1514-1521.	1.6	43
132	Solution Synthesis, Optical Properties, and Bioimaging Applications of Silicon Nanocrystals. Accounts of Chemical Research, 2014, 47, 3045-3051.	7.6	187
133	Mimicking filtration and transport of rotavirus and adenovirus in sand media using DNA-labeled, protein-coated silica nanoparticles. Water Research, 2014, 62, 167-179.	5.3	44
134	Performance enhancement in silicon solar cell by inverted nanopyramid texturing and silicon quantum dots coating. Journal of Renewable and Sustainable Energy, 2014, 6, 011204.	0.8	14
135	How hollow structures form from crystalline iron-iron oxide core-shell nanoparticles in the electron beam. Chemical Communications, 2013, 49, 6203.	2.2	18
136	Effect of Surfactant Concentration and Aggregation on the Growth Kinetics of Nickel Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 16709-16718.	1.5	68
137	Silicon and Germanium Nanoparticles with Tailored Surface Chemistry as Novel Inorganic Fiber Brightening Agents. Journal of Agricultural and Food Chemistry, 2013, 61, 7188-7194.	2.4	6
138	Au-Pd Core-Shell Nanoparticles as Alcohol Oxidation Catalysts: Effect of Shape and Composition. ChemSusChem, 2013, 6, 1858-1862.	3.6	21
139	Earthworms lit with quantum dots. Nature Nanotechnology, 2013, 8, 6-7.	15.6	12
140	Gold-Palladium Core-Shell Nanocrystals with Size and Shape Control Optimized for Catalytic Performance. Angewandte Chemie - International Edition, 2013, 52, 1477-1480.	7.2	104
141	Chemical Insight into the Origin of Red and Blue Photoluminescence Arising from Freestanding Silicon Nanocrystals. ACS Nano, 2013, 7, 2676-2685.	7.3	267
142	Can Polymorphism be Used to form Branched Metal Nanostructures?. Advanced Materials, 2013, 25, 1552-1556.	11.1	72
143	CdSe Quantum Dot Growth on Magnetic Nickel Nanoparticles. Crystal Growth and Design, 2013, 13, 2486-2492.	1.4	17
144	How to control the shape of metal nanostructures in organic solution phase synthesis for plasmonics and catalysis. Nano Today, 2013, 8, 198-215.	6.2	94

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145	One-pot synthesis of water soluble iron nanoparticles using rationally-designed peptides and ligand release. <i>Chemical Communications</i> , 2013, 49, 4540.	2.2	11
146	Shape Control from Thermodynamic Growth Conditions: The Case of hcp Ruthenium Hourglass Nanocrystals. <i>Journal of the American Chemical Society</i> , 2013, 135, 606-609.	6.6	67
147	Oxide-based inorganic/organic and nanoporous spherical particles: synthesis and functional properties. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 023002.	2.8	24
148	Using Magnetic Resonance Imaging to Evaluate Dendritic Cell-Based Vaccination. <i>PLoS ONE</i> , 2013, 8, e65318.	1.1	17
149	Strongly Magnetic Iron Nanoparticles Improve the Diagnosis of Small Tumours in the Reticuloendothelial System by Magnetic Resonance Imaging. <i>PLoS ONE</i> , 2013, 8, e56572.	1.1	12
150	Ostwald's Rule of Stages and Its Role in CdSe Quantum Dot Crystallization. <i>Journal of the American Chemical Society</i> , 2012, 134, 17046-17052.	6.6	48
151	Synthesis, Alignment, and Magnetic Properties of Monodisperse Nickel Nanocubes. <i>Journal of the American Chemical Society</i> , 2012, 134, 855-858.	6.6	141
152	Novel Phosphopeptides as Surface-Active Agents in Iron Nanoparticle Synthesis. <i>Australian Journal of Chemistry</i> , 2012, 65, 680.	0.5	8
153	Synthesis and Size Dependent Reflectance Study of Water Soluble SnS Nanoparticles. <i>Nanomaterials</i> , 2012, 2, 54-64.	1.9	23
154	Synthesis and Stability of Highly Crystalline and Stable Iron/Iron Oxide Core/Shell Nanoparticles for Biomedical Applications. <i>ChemPlusChem</i> , 2012, 77, 135-140.	1.3	37
155	Synthesis and characterisation of magnetic iron sulfide nanocrystals. <i>Journal of Solid State Chemistry</i> , 2012, 189, 57-62.	1.4	23
156	Healing and sealing carbon nanotubes' growth and closure within a transmission electron microscope. <i>Nanoscale</i> , 2011, 3, 1493.	2.8	1
157	Solution Synthesis and Optical Properties of SnTe Nanocrystals. <i>Crystal Growth and Design</i> , 2011, 11, 2721-2723.	1.4	24
158	Colloidal synthesis of inorganic fullerene nanoparticles and hollow spheres of titanium disulfide. <i>Chemical Communications</i> , 2011, 47, 439-441.	2.2	11
159	Synthesis and Comparison of the Magnetic Properties of Iron Sulfide Spinel and Iron Oxide Spinel Nanocrystals. <i>Chemistry of Materials</i> , 2011, 23, 2514-2517.	3.2	45
160	Hot-injection synthesis of iron/iron oxide core/shell nanoparticles for T2 contrast enhancement in magnetic resonance imaging. <i>Chemical Communications</i> , 2011, 47, 9221.	2.2	58
161	How Nanoparticles Coalesce: An in Situ Study of Au Nanoparticle Aggregation and Grain Growth. <i>Chemistry of Materials</i> , 2011, 23, 3312-3317.	3.2	174
162	Sized controlled synthesis, purification, and cell studies with silicon quantum dots. <i>Nanoscale</i> , 2011, 3, 3364.	2.8	113

#	ARTICLE	IF	CITATIONS
163	Toxicity test: Fluorescent silicon nanoparticles. Journal of Physics: Conference Series, 2011, 304, 012042.	0.3	6
164	Reverse Capillary Action in Carbon Nanotubes: Sucking Metal Nanoparticles Out of Nanotubes. Small, 2011, 7, 737-740.	5.2	9
165	Abstract: Simple Synthesis and Functionalization of Iron Nanoparticles for Magnetic Resonance Imaging (Angew. Chem. 18/2011). Angewandte Chemie, 2011, 123, 4110-4110.	1.6	0
166	Simple Synthesis and Functionalization of Iron Nanoparticles for Magnetic Resonance Imaging. Angewandte Chemie - International Edition, 2011, 50, 4206-4209.	7.2	148
167	Back Cover: Simple Synthesis and Functionalization of Iron Nanoparticles for Magnetic Resonance Imaging (Angew. Chem. Int. Ed. 18/2011). Angewandte Chemie - International Edition, 2011, 50, 4024-4024.	7.2	0
168	Effect of annealing temperature on the structural, photoluminescence and magnetic properties of sol-gel derived Magnetoplumbite-type (M-type) hexagonal strontium ferrite. Journal of Magnetism and Magnetic Materials, 2011, 323, 2318-2322.	1.0	69
169	Chemical Reactions on Surface Molecules Attached to Silicon Quantum Dots. Journal of the American Chemical Society, 2010, 132, 248-253.	6.6	226
170	Shape control of platinum and palladium nanoparticles for catalysis. Nanoscale, 2010, 2, 2045.	2.8	305
171	Size Controlled Synthesis of Germanium Nanocrystals by Hydride Reducing Agents and Their Biological Applications. Chemistry of Materials, 2010, 22, 482-486.	3.2	98
172	Metal nanoparticles as catalysts for carbon nanotube synthesis at low reaction temperatures. , 2010, , .		0
173	Solution Synthesis of Monodisperse Indium Nanoparticles and Highly Faceted Indium Polyhedra. Crystal Growth and Design, 2010, 10, 3854-3858.	1.4	28
174	Ultrafast Growth of Highly Branched Palladium Nanostructures for Catalysis. ACS Nano, 2010, 4, 396-402.	7.3	194
175	Transition Metal Polysulfide Complexes as Single-Source Precursors for Metal Sulfide Nanocrystals. Journal of Physical Chemistry C, 2010, 114, 3817-3821.	1.5	41
176	Size and shape evolution of upconverting nanoparticles using microwave assisted synthesis. CrystEngComm, 2010, 12, 1993.	1.3	34
177	Colloidal Synthesis of Silicon Nanocrystals Via Inverse Micelles Microemulsion. Zeitschrift Fur Physikalische Chemie, 2009, 223, 1417-1426.	1.4	7
178	The Synthesis of Carbon Nanotubes from Metal Nanoparticles. , 2009, , .		0
179	Density functional studies of surface functionalization in semiconductor quantum dots. , 2009, , .		1
180	Synthesis and Structural Characterization of Branched Palladium Nanostructures. Advanced Materials, 2009, 21, 2288-2293.	11.1	124

#	ARTICLE	IF	CITATIONS
181	Mixed Si-Ge nanoparticle quantum dots: a density functional theory study. European Physical Journal B, 2009, 72, 193-201.	0.6	6
182	Liquid-Phase Synthesis of Flower-like and Flake-like Titanium Disulfide Nanostructures. Chemistry of Materials, 2009, 21, 1725-1730.	3.2	50
183	Real-Time TEM and Kinetic Monte Carlo Studies of the Coalescence of Decahedral Gold Nanoparticles. ACS Nano, 2009, 3, 3809-3813.	7.3	113
184	In Situ and Ex Situ Studies of Platinum Nanocrystals: Growth and Evolution in Solution. Journal of the American Chemical Society, 2009, 131, 14590-14595.	6.6	157
185	Synthesis of SnS Quantum Dots. Journal of the American Chemical Society, 2009, 131, 15990-15991.	6.6	143
186	Synthesis, characterization and photoconductivity of highly crystalline InP nanowires prepared from solid hydrogen phosphide. Journal of Materials Chemistry, 2009, 19, 4852.	6.7	11
187	Self-Assembled Hollow Polyaniline/Au Nanospheres Obtained by a One-Step Synthesis. Macromolecular Rapid Communications, 2008, 29, 598-603.	2.0	46
188	Application of Lanczos-based time-dependent density-functional theory approach to semiconductor nanoparticle quantum dots. European Physical Journal B, 2008, 66, 7-15.	0.6	14
189	Luminescent passive-oxidized silicon quantum dots as biological staining labels and their cytotoxicity effects at high concentration. Nanotechnology, 2008, 19, 415102.	1.3	126
190	Synthesis of CdSeS Nanocrystals in Coordinating and Noncoordinating Solvents: Solvent's Role in Evolution of the Optical and Structural Properties. Chemistry of Materials, 2007, 19, 5185-5193.	3.2	100
191	Preparation, Self-Assembly, and Mechanistic Study of Highly Monodispersed Nanocubes. Journal of the American Chemical Society, 2007, 129, 3287-3291.	6.6	223
192	Silicon nanocrystals as handy biomarkers. , 2007, , .		1
193	Shape-Controlled Growth of Platinum Nanoparticles. Small, 2007, 3, 1508-1512.	5.2	110
194	The synthesis of silicon and germanium quantum dots for biomedical applications. , 2006, , .		3
195	Synthesis of water-soluble photoluminescent germanium nanocrystals. Nanotechnology, 2006, 17, 3745-3749.	1.3	51
196	The Microemulsion Synthesis of Hydrophobic and Hydrophilic Silicon Nanocrystals. Advanced Materials, 2006, 18, 2053-2056.	11.1	141
197	Controlled formation of 3D CdS nanocrystal superlattices in solution. Nanotechnology, 2006, 17, 3035-3038.	1.3	15
198	Ab-initio studies of functionalized semiconductor quantum dots. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
199	Photonics of silicon nanocrystals. , 2005, 6038, 254.		1
200	The synthesis of silicon nanoparticles for biomedical applications (Invited Paper). , 2005, , .		4
201	Water-Soluble Photoluminescent Silicon Quantum Dots. Angewandte Chemie - International Edition, 2005, 44, 4550-4554.	7.2	483
202	Synthesis and Self-Assembly of Triangular and Hexagonal CdS Nanocrystals. Advanced Materials, 2005, 17, 2997-3001.	11.1	91
203	Controlling PbS nanocrystal aggregation in conducting polymers. Nanotechnology, 2005, 16, 2381-2384.	1.3	28
204	Surface Morphology Dependent Photoluminescence from Colloidal Silicon Nanocrystals. Journal of Physical Chemistry B, 2005, 109, 19064-19067.	1.2	101
205	Micro-emulsion synthesis of monodisperse surface stabilized silicon nanocrystals. Chemical Communications, 2005, , 1833.	2.2	191
206	Preparation of Large Scale Monolayers of Gold Nanoparticles on Modified Silicon Substrates Using a Controlled Pulling Method. Langmuir, 2003, 19, 5115-5120.	1.6	33
207	The Synthesis of Nickel Sulfide Nanoparticles on Graphitized Carbon Supports. Journal of Physical Chemistry B, 2002, 106, 10895-10901.	1.2	48
208	The preparation of chromium, nickel and chromium-nickel alloy nanoparticles on supports. Journal of Materials Chemistry, 2002, 12, 3809-3813.	6.7	22
209	Size-controlled short nanobells: Growth and formation mechanism. Applied Physics Letters, 2000, 77, 4136-4138.	1.5	58
210	Synthesis and Characterization of Highly Crystalline Zinc Phosphide Nanoparticles. Key Engineering Materials, 0, 701, 3-7.	0.4	2
211	Linking Phase Segregation and Photovoltaic Performance of Mixed-Halide Perovskite Films through Grain Size Engineering. ACS Energy Letters, 0, , 1649-1658.	8.8	33
212	The Influence of Nanoconfinement on Electrocatalysis. Angewandte Chemie, 0, , .	1.6	6
213	Flow-based synthesis of gold-coated magnetic nanoparticles for magneto-plasmonic sensing applications. Particle and Particle Systems Characterization, 0, , 2200051.	1.2	1