Soshan Cheong

List of Publications by Year
in descending order

73 papers	3,885 citations	117625 34 h-index	128289 60 g-index
79 all docs	79 docs citations	79 times ranked	6123 citing authors

#	Article	IF	Citations
1	Shape control of platinum and palladium nanoparticles for catalysis. Nanoscale, 2010, 2, 2045.	5.6	305
2	Ultrafast Growth of Highly Branched Palladium Nanostructures for Catalysis. ACS Nano, 2010, 4, 396-402.	14.6	194
3	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. Nature Communications, 2021, 12, 466.	12.8	176
4	In Situ and Ex Situ Studies of Platinum Nanocrystals: Growth and Evolution in Solution. Journal of the American Chemical Society, 2009, 131, 14590-14595.	13.7	157
5	Simple Synthesis and Functionalization of Iron Nanoparticles for Magnetic Resonance Imaging. Angewandte Chemie - International Edition, 2011, 50, 4206-4209.	13.8	148
6	Synthesis, Alignment, and Magnetic Properties of Monodisperse Nickel Nanocubes. Journal of the American Chemical Society, 2012, 134, 855-858.	13.7	141
7	Cascade Reactions in Nanozymes: Spatially Separated Active Sites inside Ag-Coreâ€“Porous-Cu-Shell Nanoparticles for Multistep Carbon Dioxide Reduction to Higher Organic Molecules. Journal of the American Chemical Society, 2019, 141, 14093-14097.	13.7	139
8	A single-Pt-atom-on-Ru-nanoparticle electrocatalyst for CO-resilient methanol oxidation. Nature Catalysis, 2022, 5, 231-237.	34.4	133
9	Direct Growth of Highly Strained Pt Islands on Branched Ni Nanoparticles for Improved Hydrogen Evolution Reaction Activity. Journal of the American Chemical Society, 2019, 141, 16202-16207.	13.7	113
10	Synthesis of low- and high-index faceted metal (Pt, Pd, Ru, Ir, Rh) nanoparticles for improved activity and stability in electrocatalysis. Nanoscale, 2019, 11, 18995-19011.	5.6	110
11	Goldâ€“Palladium Coreâ€“Shell Nanocrystals with Size and Shape Control Optimized for Catalytic Performance. Angewandte Chemie - International Edition, 2013, 52, 1477-1480.	13.8	104
12	Gold over Branched Palladium Nanostructures for Photothermal Cancer Therapy. ACS Nano, 2015, 9, 12283-12291.	14.6	102
13	Biodegradable 2D Feâ€“Al Hydroxide for Nanocatalytic Tumorâ€Dynamic Therapy with Tumor Specificity. Advanced Science, 2018, 5, 1801155.	11.2	100
14	How to control the shape of metal nanostructures in organic solution phase synthesis for plasmonics and catalysis. Nano Today, 2013, 8, 198-215.	11.9	94
15	Photochemical upconversion of near-infrared light from below the silicon bandgap. Nature Photonics, 2020, 14, 585-590.	31.4	88
16	Threeâ€Dimensional Branched and Faceted Goldâ€“Ruthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. Angewandte Chemie - International Edition, 2018, 57, 10241-10245.	13.8	83
17	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for Highâ€Activity Electrocatalytic Oxidation of Biomass. Angewandte Chemie - International Edition, 2020, 59, 15487-15491.	13.8	83
18	Cubic-Core Hexagonal-Branch Mechanism To Synthesize Bimetallic Branched and Faceted Pdâ€“Ru Nanoparticles for Oxygen Evolution Reaction Electrocatalysis. Journal of the American Chemical Society, 2018, 140, 12760-12764.	13.7	82

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19	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. Nature Communications, 2019, 10, 4645.	12.8	76
20	Subcellular tracking reveals the location of dimethylsulfoniopropionate in microalgae and visualises its uptake by marine bacteria. ELife, 2017, 6, .	6.0	74
21	Can Polymorphism be Used to form Branched Metal Nanostructures?. Advanced Materials, 2013, 25, 1552-1556.	21.0	72
22	Electrocatalytic Nanoparticles That Mimic the Three-Dimensional Geometric Architecture of Enzymes: Nanozymes. Journal of the American Chemical Society, 2018, 140, 13449-13455.	13.7	72
23	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. ACS Energy Letters, 2020, 5, 3560-3568.	17.4	70
24	Designing Undercoordinated Niâ€“N_x and Feâ€“N_x on Holey Graphene for Electrochemical CO₂ Conversion to Syngas. ACS Nano, 2021, 15, 12006-12018.	14.6	68
25	Shape Control from Thermodynamic Growth Conditions: The Case of hcp Ruthenium Hourglass Nanocrystals. Journal of the American Chemical Society, 2013, 135, 606-609.	13.7	67
26	Hot-injection synthesis of iron/iron oxide core/shell nanoparticles for T2 contrast enhancement in magnetic resonance imaging. Chemical Communications, 2011, 47, 9221.	4.1	58
27	Preserving the Exposed Facets of Pt₃Sn Intermetallic Nanocubes During an Order to Disorder Transition Allows the Elucidation of the Effect of the Degree of Alloy Ordering on Electrocatalysis. Journal of the American Chemical Society, 2020, 142, 3231-3239.	13.7	57
28	Formation of Branched Ruthenium Nanoparticles for Improved Electrocatalysis of Oxygen Evolution Reaction. Small, 2019, 15, e1804577.	10.0	54
29	Ostwaldâ€™s Rule of Stages and Its Role in CdSe Quantum Dot Crystallization. Journal of the American Chemical Society, 2012, 134, 17046-17052.	13.7	48
30	Pdâ€“Ru coreâ€“shell nanoparticles with tunable shell thickness for active and stable oxygen evolution performance. Nanoscale, 2018, 10, 15173-15177.	5.6	42
31	Role of the Secondary Metal in Ordered and Disordered Ptâ€“M Intermetallic Nanoparticles: An Example of Pt₃Sn Nanocubes for the Electrocatalytic Methanol Oxidation. ACS Catalysis, 2021, 11, 2235-2243.	11.2	42
32	Layered double hydroxide nanoparticles: Impact on vascular cells, blood cells and the complement system. Journal of Colloid and Interface Science, 2018, 512, 404-410.	9.4	39
33	Synthesis and Stability of Highly Crystalline and Stable Iron/Iron Oxide Core/Shell Nanoparticles for Biomedical Applications. ChemPlusChem, 2012, 77, 135-140.	2.8	37
34	Revealing Molecular Level Indicators of Collagen Stability: Minimizing Chrome Usage in Leather Processing. ACS Sustainable Chemistry and Engineering, 2018, 6, 7096-7104.	6.7	36
35	Quantum Dot Passivation of Halide Perovskite Films with Reduced Defects, Suppressed Phase Segregation, and Enhanced Stability. Advanced Science, 2022, 9, e2102258.	11.2	35
36	Linking Phase Segregation and Photovoltaic Performance of Mixed-Halide Perovskite Films through Grain Size Engineering. ACS Energy Letters, 0, , 1649-1658.	17.4	33

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37	Introducing Stacking Faults into Three-Dimensional Branched Nickel Nanoparticles for Improved Catalytic Activity. Journal of the American Chemical Society, 2022, 144, 11094-11098.	13.7	27
38	Nanoscale upconversion for oxygen sensing. Materials Science and Engineering C, 2017, 70, 76-84.	7.3	26
39	Selectively detecting attomolar concentrations of proteins using gold lined nanopores in a nanopore blockade sensor. Chemical Science, 2020, 11, 12570-12579.	7.4	25
40	Twoâ€Dimensional Ultraâ€Thin Nanosheets with Extraordinarily High Drug Loading and Long Blood Circulation for Cancer Therapy. Small, 2022, 18, e2200299.	10.0	24
41	From the inside-out: leached metal impurities in multiwall carbon nanotubes for purification or electrocatalysis. Journal of Materials Chemistry A, 2018, 6, 4686-4694.	10.3	23
42	Size and shape evolution of highly magnetic iron nanoparticles from successive growth reactions. Chemical Communications, 2017, 53, 11548-11551.	4.1	22
43	Auâ€“Pd Coreâ€“Shell Nanoparticles as Alcohol Oxidation Catalysts: Effect of Shape and Composition. ChemSusChem, 2013, 6, 1858-1862.	6.8	21
44	Threeâ€Dimensional Branched and Faceted Goldâ€“Ruthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. Angewandte Chemie, 2018, 130, 10398-10402.	2.0	21
45	Ultrathin Feâ€Nâ€C Nanosheets Coordinated Feâ€Doped CoNi Alloy Nanoparticles for Electrochemical Water Splitting. Particle and Particle Systems Characterization, 2019, 36, 1800252.	2.3	21
46	Raspberry-like small multicore gold nanostructures for efficient photothermal conversion in the first and second near-infrared windows. Chemical Communications, 2019, 55, 4055-4058.	4.1	20
47	How hollow structures form from crystalline ironâ€“iron oxide coreâ€“shell nanoparticles in the electron beam. Chemical Communications, 2013, 49, 6203.	4.1	18
48	Stability of polyelectrolyte-coated iron nanoparticles for T 2 -weighted magnetic resonance imaging. Journal of Magnetism and Magnetic Materials, 2017, 439, 251-258.	2.3	18
49	Real-Time Synchrotron Small-Angle X-ray Scattering Studies of Collagen Structure during Leather Processing. Industrial & Engineering Chemistry Research, 2018, 57, 63-69.	3.7	18
50	Facettierte verzweigte Nickelâ€Nanopartikel mit variierbarer VerzweigungslÃnge fÃ¼r die hochaktive elektrokatalytische Oxidation von Biomasse. Angewandte Chemie, 2020, 132, 15615-15620.	2.0	18
51	Simultaneous Functionalization of Carbon Surfaces with Rhodium and Iridium Organometallic Complexes: Hybrid Bimetallic Catalysts for Hydroamination. Organometallics, 2019, 38, 780-787.	2.3	17
52	Controlling Pt Crystal Defects on the Surface of Niâ€“Pt Coreâ€“Shell Nanoparticles for Active and Stable Electrocatalysts for Oxygen Reduction. ACS Applied Nano Materials, 2020, 3, 5995-6000.	5.0	15
53	Can sodium silicates affect collagen structure during tanning? Insights from small angle X-ray scattering (SAXS) studies. RSC Advances, 2017, 7, 11665-11671.	3.6	14
54	Monitoring Ligandâ€Mediated Growth and Aggregation of Metal Nanoparticles and Nanodendrites by In Situ Synchrotron Scattering Techniques. ChemNanoMat, 2015, 1, 109-114.	2.8	13

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55	ZnO/PVP nanoparticles induce gelation in type I collagen. European Polymer Journal, 2016, 75, 399-405.	5.4	13
56	Earthworms lit with quantum dots. Nature Nanotechnology, 2013, 8, 6-7.	31.5	12
57	Investigation of K modified P2 Na_{0.7}Mn_{0.8}Mg_{0.2}O₂ as a cathode material for sodium-ion batteries. CrystEngComm, 2019, 21, 172-181.	2.6	12
58	Synthetic Strategies to Enhance the Electrocatalytic Properties of Branched Metal Nanoparticles. Accounts of Chemical Research, 2022, 55, 1693-1702.	15.6	12
59	One-pot synthesis of water soluble iron nanoparticles using rationally-designed peptides and ligand release. Chemical Communications, 2013, 49, 4540.	4.1	11
60	How to build a bone? - Hydroxyapatite or Posnerâ€™s clusters as bone minerals. Open Ceramics, 2021, 6, 100092.	2.0	11
61	Carbon dioxide as a pH-switch anti-solvent for biomass fractionation and pre-treatment with aqueous hydroxide solutions. Green Chemistry, 2017, 19, 2129-2134.	9.0	10
62	Alkali Metal-Modified P2 NaxMnO2: Crystal Structure and Application in Sodium-Ion Batteries. Inorganic Chemistry, 2020, 59, 12143-12155.	4.0	9
63	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste. , 2022, 4, 120-127.		7
64	Quantifying Inorganic Nitrogen Assimilation by Synechococcus Using Bulk and Single-Cell Mass Spectrometry: A Comparative Study. Frontiers in Microbiology, 2018, 9, 2847.	3.5	6
65	Photostability of oxygen-sensitive core-shell nanofibers. Sensors and Actuators B: Chemical, 2019, 283, 269-277.	7.8	6
66	Increasing the Formation of Active Sites on Highly Crystalline Co Branched Nanoparticles for Improved Oxygen Evolution Reaction Electrocatalysis. ChemCatChem, 2020, 12, 3126-3131.	3.7	6
67	Metrology of convex-shaped nanoparticles via soft classification machine learning of TEM images. Nanoscale Advances, 2021, 3, 6956-6964.	4.6	6
68	Upconverter-powered oxygen sensing in electrospun polymeric bilayers. Sensors and Actuators B: Chemical, 2016, 235, 197-205.	7.8	5
69	Controlling the Number of Branches and Surface Facets of Pdâ€Core Ruâ€Branched Nanoparticles to Make Highly Active Oxygen Evolution Reaction Electrocatalysts. Chemistry - A European Journal, 2020, 26, 15501-15504.	3.3	5
70	Recent Development in Focused Ion Beam Nanofabrication. , 2019, , 327-356.		4
71	Rb/Cs-Modified P2 Na_{0.7}Mn_{0.8}Mg_{0.2}O₂: Application in Sodium-Ion Batteries. ACS Omega, 2019, 4, 5784-5794.	3.5	4
72	Synthetic Bilayers on Mica from Self-Assembly of Hydrogen-Bonded Triazines. Langmuir, 2020, 36, 13301-13311.	3.5	1

#	Article	IF	Citations
73	Facile synthesis of Ge1â^'x Sn x nanowires. Materials Research Express, 2020, 7, 064004.	1.6	1