

Soshan Cheong

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71 papers	2,664 citations	28 h-index	50 g-index
79 ext. papers	3,266 ext. citations	11 avg, IF	5.18 L-index

#	Paper	IF	Citations
71	Shape control of platinum and palladium nanoparticles for catalysis. <i>Nanoscale</i> , 2010 , 2, 2045-53	7.7	272
70	Ultrafast growth of highly branched palladium nanostructures for catalysis. <i>ACS Nano</i> , 2010 , 4, 396-402	16.7	183
69	In situ and ex situ studies of platinum nanocrystals: growth and evolution in solution. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14590-5	16.4	151
68	Simple synthesis and functionalization of iron nanoparticles for magnetic resonance imaging. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4206-9	16.4	138
67	Synthesis, alignment, and magnetic properties of monodisperse nickel nanocubes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 855-8	16.4	130
66	Gold-palladium core-shell nanocrystals with size and shape control optimized for catalytic performance. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1477-80	16.4	98
65	Gold over Branched Palladium Nanostructures for Photothermal Cancer Therapy. <i>ACS Nano</i> , 2015 , 9, 12283-91	16.7	86
64	How to control the shape of metal nanostructures in organic solution phase synthesis for plasmonics and catalysis. <i>Nano Today</i> , 2013 , 8, 198-215	17.9	83
63	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , 2021 , 12, 466	17.4	73
62	Biodegradable 2D Fe-Al Hydroxide for Nanocatalytic Tumor-Dynamic Therapy with Tumor Specificity. <i>Advanced Science</i> , 2018 , 5, 1801155	13.6	73
61	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	7.7	69
60	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	16.4	67
59	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	16.4	65
58	Can polymorphism be used to form branched metal nanostructures?. <i>Advanced Materials</i> , 2013 , 25, 15523-4	16.4	62
57	Shape control from thermodynamic growth conditions: the case of hcp ruthenium hourglass nanocrystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 606-9	16.4	62
56	Cubic-Core Hexagonal-Branch Mechanism To Synthesize Bimetallic Branched and Faceted Pd-Ru Nanoparticles for Oxygen Evolution Reaction Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12760-12764	16.4	58
55	Three-Dimensional Branched and Faceted Gold-Ruthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10241-10245	16.4	57

54	Subcellular tracking reveals the location of dimethylsulfoniopropionate in microalgae and visualises its uptake by marine bacteria. <i>ELife</i> , 2017 , 6,	8.9	50
53	Hot-injection synthesis of iron/iron oxide core/shell nanoparticles for T2 contrast enhancement in magnetic resonance imaging. <i>Chemical Communications</i> , 2011 , 47, 9221-3	5.8	49
52	Photochemical upconversion of near-infrared light from below the silicon bandgap. <i>Nature Photonics</i> , 2020 , 14, 585-590	33.9	48
51	Electrocatalytic Nanoparticles That Mimic the Three-Dimensional Geometric Architecture of Enzymes: Nanozymes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13449-13455	16.4	45
50	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	16.4	41
49	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. <i>Nature Communications</i> , 2019 , 10, 4645	17.4	39
48	Ostwald's Rule of Stages and its role in CdSe quantum dot crystallization. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17046-52	16.4	35
47	Synthesis and Stability of Highly Crystalline and Stable Iron/Iron Oxide Core/Shell Nanoparticles for Biomedical Applications. <i>ChemPlusChem</i> , 2012 , 77, 135-140	2.8	35
46	Formation of Branched Ruthenium Nanoparticles for Improved Electrocatalysis of Oxygen Evolution Reaction. <i>Small</i> , 2019 , 15, e1804577	11	33
45	Pd-Ru core-shell nanoparticles with tunable shell thickness for active and stable oxygen evolution performance. <i>Nanoscale</i> , 2018 , 10, 15173-15177	7.7	30
44	Preserving the Exposed Facets of PtSn 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	16.4	29
43	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. <i>ACS Energy Letters</i> , 2020 , 5, 3560-3568	20.1	27
42	Gold-Palladium Core-Shell Nanocrystals with Size and Shape Control Optimized for Catalytic Performance. <i>Angewandte Chemie</i> , 2013 , 125, 1517-1520	3.6	26
41	Revealing Molecular Level Indicators of Collagen Stability: Minimizing Chrome Usage in Leather Processing. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7096-7104	8.3	24
40	Layered double hydroxide nanoparticles: Impact on vascular cells, blood cells and the complement system. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 404-410	9.3	23
39	Nanoscale upconversion for oxygen sensing. <i>Materials Science and Engineering C</i> , 2017 , 70, 76-84	8.3	21
38	Size and shape evolution of highly magnetic iron nanoparticles from successive growth reactions. <i>Chemical Communications</i> , 2017 , 53, 11548-11551	5.8	19
37	Au-Pd core-shell nanoparticles as alcohol oxidation catalysts: effect of shape and composition. <i>ChemSusChem</i> , 2013 , 6, 1858-62	8.3	19

36	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	13	17
35	Three-Dimensional Branched and Faceted GoldRuthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie</i> , 2018 , 130, 10398-10402	3.6	17
34	Ultrathin Fe-N-C Nanosheets Coordinated Fe-Doped CoNi Alloy Nanoparticles for Electrochemical Water Splitting. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1800252	3.1	17
33	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	5.8	15
32	Real-Time Synchrotron Small-Angle X-ray Scattering Studies of Collagen Structure during Leather Processing. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 63-69	3.9	15
31	Linking Phase Segregation and Photovoltaic Performance of Mixed-Halide Perovskite Films through Grain Size Engineering. <i>ACS Energy Letters</i> , 1649-1658	20.1	15
30	Designing Undercoordinated Ni-N and Fe-N on Holey Graphene for Electrochemical CO Conversion to Syngas. <i>ACS Nano</i> , 2021 ,	16.7	15
29	Stability of polyelectrolyte-coated iron nanoparticles for T2-weighted magnetic resonance imaging. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 439, 251-258	2.8	14
28	Simple Synthesis and Functionalization of Iron Nanoparticles for Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2011 , 123, 4292-4295	3.6	14
27	Simultaneous Functionalization of Carbon Surfaces with Rhodium and Iridium Organometallic Complexes: Hybrid Bimetallic Catalysts for Hydroamination. <i>Organometallics</i> , 2019 , 38, 780-787	3.8	14
26	Facettierte verzweigte Nickel-Nanopartikel mit variierbarer Verzweigungsgröße für die hochaktive elektrokatalytische Oxidation von Biomasse. <i>Angewandte Chemie</i> , 2020 , 132, 15615-15620	3.6	13
25	How hollow structures form from crystalline iron-iron oxide core-shell nanoparticles in the electron beam. <i>Chemical Communications</i> , 2013 , 49, 6203-5	5.8	13
24	Can sodium silicates affect collagen structure during tanning? Insights from small angle X-ray scattering (SAXS) studies. <i>RSC Advances</i> , 2017 , 7, 11665-11671	3.7	12
23	Selectively detecting attomolar concentrations of proteins using gold lined nanopores in a nanopore blockade sensor. <i>Chemical Science</i> , 2020 , 11, 12570-12579	9.4	12
22	ZnO/PVP nanoparticles induce gelation in type I collagen. <i>European Polymer Journal</i> , 2016 , 75, 399-405	5.2	11
21	One-pot synthesis of water soluble iron nanoparticles using rationally-designed peptides and ligand release. <i>Chemical Communications</i> , 2013 , 49, 4540-2	5.8	11
20	Investigation of K modified P2 Na0.7Mn0.8Mg0.2O2 as a cathode material for sodium-ion batteries. <i>CrystEngComm</i> , 2019 , 21, 172-181	3.3	10
19	Monitoring Ligand-Mediated Growth and Aggregation of Metal Nanoparticles and Nanodendrites by In Situ Synchrotron Scattering Techniques. <i>ChemNanoMat</i> , 2015 , 1, 109-114	3.5	10

18	Carbon dioxide as a pH-switch anti-solvent for biomass fractionation and pre-treatment with aqueous hydroxide solutions. <i>Green Chemistry</i> , 2017 , 19, 2129-2134	10	9
17	Quantum Dot Passivation of Halide Perovskite Films with Reduced Defects, Suppressed Phase Segregation, and Enhanced Stability. <i>Advanced Science</i> , 2021 , e2102258	13.6	8
16	Role of the Secondary Metal in Ordered and Disordered Pt ₃ M Intermetallic Nanoparticles: An Example of Pt ₃ Sn Nanocubes for the Electrocatalytic Methanol Oxidation. <i>ACS Catalysis</i> , 2021 , 11, 2235-2243	13.1	8
15	A single-Pt-atom-on-Ru-nanoparticle electrocatalyst for CO-resilient methanol oxidation. <i>Nature Catalysis</i> , 2022 , 5, 231-237	36.5	8
14	Controlling Pt Crystal Defects on the Surface of Ni ₃ Pt Core-Shell Nanoparticles for Active and Stable Electrocatalysts for Oxygen Reduction. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5995-6000	5.6	7
13	How to build a bone? - Hydroxyapatite or Posner's clusters as bone minerals. <i>Open Ceramics</i> , 2021 , 6, 100092	3.3	7
12	Upconverter-powered oxygen sensing in electrospun polymeric bilayers. <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 197-205	8.5	5
11	Photostability of oxygen-sensitive core-shell nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2019 , 283, 269-277	8.5	5
10	Rb/Cs-Modified P2 NaMnMgO: Application in Sodium-Ion Batteries. <i>ACS Omega</i> , 2019 , 4, 5784-5794	3.9	4
9	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	5.2	4
8	Alkali Metal-Modified P2 NaMnO: Crystal Structure and Application in Sodium-Ion Batteries. <i>Inorganic Chemistry</i> , 2020 , 59, 12143-12155	5.1	4
7	Two-Dimensional Ultra-Thin Nanosheets with Extraordinarily High Drug Loading and Long Blood Circulation for Cancer Therapy.. <i>Small</i> , 2022 , e2200299	11	4
6	Recent Development in Focused Ion Beam Nanofabrication 2019 , 327-356		2
5	Quantifying Inorganic Nitrogen Assimilation by Using Bulk and Single-Cell Mass Spectrometry: A Comparative Study. <i>Frontiers in Microbiology</i> , 2018 , 9, 2847	5.7	2
4	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste 2022 , 4, 120-127		2
3	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	4.8	1
2	Facile synthesis of Ge _{1-x} Sn _x nanowires. <i>Materials Research Express</i> , 2020 , 7, 064004	1.7	0
1	Synthetic Bilayers on Mica From Self-Assembly of Hydrogen-Bonded Triazines. <i>Langmuir</i> , 2020 , 36, 13301-13311	14	1

