

# Soshan Cheong

## List of Publications by Year in Descending Order

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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	A single-Pt-atom-on-Ru-nanoparticle electrocatalyst for CO-resilient methanol oxidation. <i>Nature Catalysis</i> , <b>2022</b> , 5, 231-237	36.5	8
70	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste <b>2022</b> , 4, 120-127		2
69	Two-Dimensional Ultra-Thin Nanosheets with Extraordinarily High Drug Loading and Long Blood Circulation for Cancer Therapy.. <i>Small</i> , <b>2022</b> , e2200299	11	4
68	Quantum Dot Passivation of Halide Perovskite Films with Reduced Defects, Suppressed Phase Segregation, and Enhanced Stability. <i>Advanced Science</i> , <b>2021</b> , e2102258	13.6	8
67	How to build a bone? - Hydroxyapatite or Posner clusters as bone minerals. <i>Open Ceramics</i> , <b>2021</b> , 6, 100092	3.3	7
66	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. <i>Nature Communications</i> , <b>2021</b> , 12, 466	17.4	73
65	Role of the Secondary Metal in Ordered and Disordered Pt <sub>3</sub> M Intermetallic Nanoparticles: An Example of Pt <sub>3</sub> Sn Nanocubes for the Electrocatalytic Methanol Oxidation. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2235-2243	13.1	8
64	Designing Undercoordinated Ni-N and Fe-N on Holey Graphene for Electrochemical CO Conversion to Syngas. <i>ACS Nano</i> , <b>2021</b> ,	16.7	15
63	Selectively detecting attomolar concentrations of proteins using gold lined nanopores in a nanopore blockade sensor. <i>Chemical Science</i> , <b>2020</b> , 11, 12570-12579	9.4	12
62	Facettierte verzweigte Nickel-Nanopartikel mit variierbarer Verzweigungsgröße für die hochaktive elektrokatalytische Oxidation von Biomasse. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 15615-15620	3.6	13
61	Facile synthesis of Ge <sub>1-x</sub> Sn <sub>x</sub> nanowires. <i>Materials Research Express</i> , <b>2020</b> , 7, 064004	1.7	0
60	Increasing the Formation of Active Sites on Highly Crystalline Co Branched Nanoparticles for Improved Oxygen Evolution Reaction Electrocatalysis. <i>ChemCatChem</i> , <b>2020</b> , 12, 3126-3131	5.2	4
59	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> , <b>2020</b> , 142, 3231-3239	16.4	29
58	Controlling Pt Crystal Defects on the Surface of NiPt Core-Shell Nanoparticles for Active and Stable Electrocatalysts for Oxygen Reduction. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 5995-6000	5.6	7
57	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3560-3568	20.1	27
56	Photochemical upconversion of near-infrared light from below the silicon bandgap. <i>Nature Photonics</i> , <b>2020</b> , 14, 585-590	33.9	48
55	Synthetic Bilayers on Mica from Self-Assembly of Hydrogen-Bonded Triazines. <i>Langmuir</i> , <b>2020</b> , 36, 13301-13311	14	13311

54	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> , <b>2020</b> , 26, 15501-15504	4.8	1
53	Alkali Metal-Modified P2 NaMnO: Crystal Structure and Application in Sodium-Ion Batteries. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 12143-12155	5.1	4
52	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for High-Activity Electrocatalytic Oxidation of Biomass. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 15487-15491	16.4	41
51	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> , <b>2019</b> , 141, 14093-14097	16.4	65
50	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> , <b>2019</b> , 141, 16202-16207	16.4	67
49	Investigation of K modified P2 Na0.7Mn0.8Mg0.2O2 as a cathode material for sodium-ion batteries. <i>CrystEngComm</i> , <b>2019</b> , 21, 172-181	3.3	10
48	Formation of Branched Ruthenium Nanoparticles for Improved Electrocatalysis of Oxygen Evolution Reaction. <i>Small</i> , <b>2019</b> , 15, e1804577	11	33
47	Rb/Cs-Modified P2 NaMnMgO: Application in Sodium-Ion Batteries. <i>ACS Omega</i> , <b>2019</b> , 4, 5784-5794	3.9	4
46	Raspberry-like small multicore gold nanostructures for efficient photothermal conversion in the first and second near-infrared windows. <i>Chemical Communications</i> , <b>2019</b> , 55, 4055-4058	5.8	15
45	Recent Development in Focused Ion Beam Nanofabrication <b>2019</b> , 327-356		2
44	Synthesis of low- and high-index faceted metal (Pt, Pd, Ru, Ir, Rh) nanoparticles for improved activity and stability in electrocatalysis. <i>Nanoscale</i> , <b>2019</b> , 11, 18995-19011	7.7	69
43	Advantages of eutectic alloys for creating catalysts in the realm of nanotechnology-enabled metallurgy. <i>Nature Communications</i> , <b>2019</b> , 10, 4645	17.4	39
42	Ultrathin Fe-N-C Nanosheets Coordinated Fe-Doped CoNi Alloy Nanoparticles for Electrochemical Water Splitting. <i>Particle and Particle Systems Characterization</i> , <b>2019</b> , 36, 1800252	3.1	17
41	Photostability of oxygen-sensitive core-shell nanofibers. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 283, 269-277	8.5	5
40	Simultaneous Functionalization of Carbon Surfaces with Rhodium and Iridium Organometallic Complexes: Hybrid Bimetallic Catalysts for Hydroamination. <i>Organometallics</i> , <b>2019</b> , 38, 780-787	3.8	14
39	Revealing Molecular Level Indicators of Collagen Stability: Minimizing Chrome Usage in Leather Processing. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7096-7104	8.3	24
38	From the inside-out: leached metal impurities in multiwall carbon nanotubes for purification or electrocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4686-4694	13	17
37	Real-Time Synchrotron Small-Angle X-ray Scattering Studies of Collagen Structure during Leather Processing. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 63-69	3.9	15

36	Layered double hydroxide nanoparticles: Impact on vascular cells, blood cells and the complement system. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 512, 404-410	9.3	23
35	Pd-Ru core-shell nanoparticles with tunable shell thickness for active and stable oxygen evolution performance. <i>Nanoscale</i> , <b>2018</b> , 10, 15173-15177	7.7	30
34	Three-Dimensional Branched and Faceted Gold-Ruthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 10398-10402	3.6	17
33	Three-Dimensional Branched and Faceted Gold-Ruthenium Nanoparticles: Using Nanostructure to Improve Stability in Oxygen Evolution Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 10241-10245	16.4	57
32	Quantifying Inorganic Nitrogen Assimilation by Using Bulk and Single-Cell Mass Spectrometry: A Comparative Study. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2847	5.7	2
31	Electrocatalytic Nanoparticles That Mimic the Three-Dimensional Geometric Architecture of Enzymes: Nanozymes. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13449-13455	16.4	45
30	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> , <b>2018</b> , 140, 12760-12764	16.4	58
29	Biodegradable 2D Fe-Al Hydroxide for Nanocatalytic Tumor-Dynamic Therapy with Tumor Specificity. <i>Advanced Science</i> , <b>2018</b> , 5, 1801155	13.6	73
28	Carbon dioxide as a pH-switch anti-solvent for biomass fractionation and pre-treatment with aqueous hydroxide solutions. <i>Green Chemistry</i> , <b>2017</b> , 19, 2129-2134	10	9
27	Can sodium silicates affect collagen structure during tanning? Insights from small angle X-ray scattering (SAXS) studies. <i>RSC Advances</i> , <b>2017</b> , 7, 11665-11671	3.7	12
26	Stability of polyelectrolyte-coated iron nanoparticles for T2-weighted magnetic resonance imaging. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 439, 251-258	2.8	14
25	Size and shape evolution of highly magnetic iron nanoparticles from successive growth reactions. <i>Chemical Communications</i> , <b>2017</b> , 53, 11548-11551	5.8	19
24	Nanoscale upconversion for oxygen sensing. <i>Materials Science and Engineering C</i> , <b>2017</b> , 70, 76-84	8.3	21
23	Subcellular tracking reveals the location of dimethylsulfoniopropionate in microalgae and visualises its uptake by marine bacteria. <i>ELife</i> , <b>2017</b> , 6,	8.9	50
22	ZnO/PVP nanoparticles induce gelation in type I collagen. <i>European Polymer Journal</i> , <b>2016</b> , 75, 399-405	5.2	11
21	Upconverter-powered oxygen sensing in electrospun polymeric bilayers. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 235, 197-205	8.5	5
20	Monitoring Ligand-Mediated Growth and Aggregation of Metal Nanoparticles and Nanodendrites by In Situ Synchrotron Scattering Techniques. <i>ChemNanoMat</i> , <b>2015</b> , 1, 109-114	3.5	10
19	Gold over Branched Palladium Nanostructures for Photothermal Cancer Therapy. <i>ACS Nano</i> , <b>2015</b> , 9, 12283-91	16.7	86

18	How hollow structures form from crystalline iron-iron oxide core-shell nanoparticles in the electron beam. <i>Chemical Communications</i> , <b>2013</b> , 49, 6203-5	5.8	13
17	Au-Pd core-shell nanoparticles as alcohol oxidation catalysts: effect of shape and composition. <i>ChemSusChem</i> , <b>2013</b> , 6, 1858-62	8.3	19
16	Gold-Palladium Core-Shell Nanocrystals with Size and Shape Control Optimized for Catalytic Performance. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 1517-1520	3.6	26
15	Gold-palladium core-shell nanocrystals with size and shape control optimized for catalytic performance. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 1477-80	16.4	98
14	Can polymorphism be used to form branched metal nanostructures?. <i>Advanced Materials</i> , <b>2013</b> , 25, 1552-4	2.4	62
13	How to control the shape of metal nanostructures in organic solution phase synthesis for plasmonics and catalysis. <i>Nano Today</i> , <b>2013</b> , 8, 198-215	17.9	83
12	One-pot synthesis of water soluble iron nanoparticles using rationally-designed peptides and ligand release. <i>Chemical Communications</i> , <b>2013</b> , 49, 4540-2	5.8	11
11	Shape control from thermodynamic growth conditions: the case of hcp ruthenium hourglass nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 606-9	16.4	62
10	Ostwald's Rule of Stages and its role in CdSe quantum dot crystallization. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 17046-52	16.4	35
9	Synthesis, alignment, and magnetic properties of monodisperse nickel nanocubes. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 855-8	16.4	130
8	Synthesis and Stability of Highly Crystalline and Stable Iron/Iron Oxide Core/Shell Nanoparticles for Biomedical Applications. <i>ChemPlusChem</i> , <b>2012</b> , 77, 135-140	2.8	35
7	Hot-injection synthesis of iron/iron oxide core/shell nanoparticles for T2 contrast enhancement in magnetic resonance imaging. <i>Chemical Communications</i> , <b>2011</b> , 47, 9221-3	5.8	49
6	Simple Synthesis and Functionalization of Iron Nanoparticles for Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 4292-4295	3.6	14
5	Simple synthesis and functionalization of iron nanoparticles for magnetic resonance imaging. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 4206-9	16.4	138
4	Shape control of platinum and palladium nanoparticles for catalysis. <i>Nanoscale</i> , <b>2010</b> , 2, 2045-53	7.7	272
3	Ultrafast growth of highly branched palladium nanostructures for catalysis. <i>ACS Nano</i> , <b>2010</b> , 4, 396-402	16.7	183
2	In situ and ex situ studies of platinum nanocrystals: growth and evolution in solution. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 14590-5	16.4	151
1	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

