Dayne F Swearer

List of Publications by Year
in descending order

25 papers	2,996 citations	430442 18 h-index	580395 25 g-index
26 all docs	26 docs citations	26 times ranked	3769 citing authors

#	Article	IF	Citations
1	Quantifying hot carrier and thermal contributions in plasmonic photocatalysis. Science, 2018, 362, 69-72.	6.0	756
2	Light-driven methane dry reforming with single atomic site antenna-reactor plasmonic photocatalysts. Nature Energy, 2020, 5, 61-70.	19.8	466
3	Heterometallic antennaâ^'reactor complexes for photocatalysis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8916-8920.	3.3	381
4	Plasmon-induced selective carbon dioxide conversion on earth-abundant aluminum-cuprous oxide antenna-reactor nanoparticles. Nature Communications, 2017, 8, 27.	5.8	308
5	Alâ€“Pd Nanodisk Heterodimers as Antennaâ€“Reactor Photocatalysts. Nano Letters, 2016, 16, 6677-6682.	4.5	196
6	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. Science Advances, 2015, 1, e1500988.	4.7	146
7	Response to Comment on â€œQuantifying hot carrier and thermal contributions in plasmonic photocatalysisâ€. Science, 2019, 364, .	6.0	131
8	Plasmonic Photocatalysis of Nitrous Oxide into N₂ and O₂ Using Aluminumâ€“Iridium Antennaâ€“Reactor Nanoparticles. ACS Nano, 2019, 13, 8076-8086.	7.3	83
9	Transition-Metal Decorated Aluminum Nanocrystals. ACS Nano, 2017, 11, 10281-10288.	7.3	76
10	Metal-organic frameworks tailor the properties of aluminum nanocrystals. Science Advances, 2019, 5, eaav5340.	4.7	74
11	Light-Driven Chemical Looping for Ammonia Synthesis. ACS Energy Letters, 2019, 4, 1505-1512.	8.8	67
12	Aluminum Nanocubes Have Sharp Corners. ACS Nano, 2019, 13, 9682-9691.	7.3	63
13	Al@TiO₂ Coreâ€“Shell Nanoparticles for Plasmonic Photocatalysis. ACS Nano, 2022, 16, 5839-5850.	7.3	48
14	Hot carrier multiplication in plasmonic photocatalysis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	43
15	Site-Selective Nanoreactor Deposition on Photocatalytic Al Nanocubes. Nano Letters, 2020, 20, 4550-4557.	4.5	34
16	Bright Infraredâ€toâ€Ultraviolet/Visible Upconversion in Small Alkaline Earthâ€Based Nanoparticles with Biocompatible CaF₂ Shells. Angewandte Chemie - International Edition, 2020, 59, 21603-21612.	7.2	31
17	Environmental Symmetry Breaking Promotes Plasmon Mode Splitting in Gold Nanotriangles. Journal of Physical Chemistry C, 2018, 122, 13259-13266.	1.5	30
18	Monitoring Chemical Reactions with Terahertz Rotational Spectroscopy. ACS Photonics, 2018, 5, 3097-3106.	3.2	19

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19	Advancing Plasmon-Induced Selectivity in Chemical Transformations with Optically Coupled Transmission Electron Microscopy. Accounts of Chemical Research, 2021, 54, 3632-3642.	7.6	17
20	Quantitative analysis of gas phase molecular constituents using frequency-modulated rotational spectroscopy. Review of Scientific Instruments, 2019, 90, 053110.	0.6	9
21	Communicating Science Concepts to Individuals with Visual Impairments Using Short Learning Modules. Journal of Chemical Education, 2016, 93, 2052-2057.	1.1	5
22	Single Particle Cathodoluminescence Spectroscopy with Sub-20 nm, Electron-Stable Phosphors. ACS Photonics, 2021, 8, 1539-1547.	3.2	5
23	Bright Infraredâ€toâ€Ultraviolet/Visible Upconversion in Small Alkaline Earthâ€Based Nanoparticles with Biocompatible CaF 2 Shells. Angewandte Chemie, 2020, 132, 21787-21796.	1.6	4
24	Exploring Scientific Ideas in Informal Settings: Activities for Individuals with Visual Impairments. Journal of Chemical Education, 2018, 95, 593-597.	1.1	2
25	A Combined Experimental and Theoretical Approach to Measure Spatially Resolved Local Surface Plasmon Resonances in Aluminum Nanocrystals. Microscopy and Microanalysis, 2018, 24, 1682-1683.	0.2	1