

Dayne F Swearer

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.

26
papers

1,924
citations

15
h-index

26
g-index

26
ext. papers

2,425
ext. citations

14.7
avg, IF

4.83
L-index

#	Paper	IF	Citations
26	Al@TiO Core-Shell Nanoparticles for Plasmonic Photocatalysis.. <i>ACS Nano</i> , 2022 ,	16.7	6
25	Single Particle Cathodoluminescence Spectroscopy with Sub-20 nm, Electron-Stable Phosphors. <i>ACS Photonics</i> , 2021 , 8, 1539-1547	6.3	1
24	Hot carrier multiplication in plasmonic photocatalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	12
23	Characterization and Properties of Plasmonic-Catalytic Nanostructures from the Atomic Scale to the Reactor Scale 2021 , 37-69		1
22	Advancing Plasmon-Induced Selectivity in Chemical Transformations with Optically Coupled Transmission Electron Microscopy. <i>Accounts of Chemical Research</i> , 2021 , 54, 3632-3642	24.3	3
21	Site-Selective Nanoreactor Deposition on Photocatalytic Al Nanocubes. <i>Nano Letters</i> , 2020 , 20, 4550-4557	11.5	16
20	Light-driven methane dry reforming with single atomic site antenna-reactor plasmonic photocatalysts. <i>Nature Energy</i> , 2020 , 5, 61-70	62.3	213
19	Bright Infrared-to-Ultraviolet/Visible Upconversion in Small Alkaline Earth-Based Nanoparticles with Biocompatible CaF ₂ Shells. <i>Angewandte Chemie</i> , 2020 , 132, 21787-21796	3.6	3
18	Bright Infrared-to-Ultraviolet/Visible Upconversion in Small Alkaline Earth-Based Nanoparticles with Biocompatible CaF Shells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21603-21612	16.4	15
17	Quantitative analysis of gas phase molecular constituents using frequency-modulated rotational spectroscopy. <i>Review of Scientific Instruments</i> , 2019 , 90, 053110	1.7	4
16	Plasmonic Photocatalysis of Nitrous Oxide into N and O Using Aluminum-Iridium Antenna-Reactor Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 8076-8086	16.7	55
15	Light-Driven Chemical Looping for Ammonia Synthesis. <i>ACS Energy Letters</i> , 2019 , 4, 1505-1512	20.1	29
14	Response to Comment on "Quantifying hot carrier and thermal contributions in plasmonic photocatalysis". <i>Science</i> , 2019 , 364,	33.3	102
13	Metal-organic frameworks tailor the properties of aluminum nanocrystals. <i>Science Advances</i> , 2019 , 5, eaav5340	14.3	50
12	Aluminum Nanocubes Have Sharp Corners. <i>ACS Nano</i> , 2019 , 13, 9682-9691	16.7	33
11	Exploring Scientific Ideas in Informal Settings: Activities for Individuals with Visual Impairments. <i>Journal of Chemical Education</i> , 2018 , 95, 593-597	2.4	2
10	Environmental Symmetry Breaking Promotes Plasmon Mode Splitting in Gold Nanotriangles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13259-13266	3.8	26

9	A Combined Experimental and Theoretical Approach to Measure Spatially Resolved Local Surface Plasmon Resonances in Aluminum Nanocrystals. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1682-1683	0.5	1
8	Quantifying hot carrier and thermal contributions in plasmonic photocatalysis. <i>Science</i> , 2018 , 362, 69-72	33.3	494
7	Monitoring Chemical Reactions with Terahertz Rotational Spectroscopy. <i>ACS Photonics</i> , 2018 , 5, 3097-3106	10.6	18
6	Plasmon-induced selective carbon dioxide conversion on earth-abundant aluminum-cuprous oxide antenna-reactor nanoparticles. <i>Nature Communications</i> , 2017 , 8, 27	17.4	220
5	Transition-Metal Decorated Aluminum Nanocrystals. <i>ACS Nano</i> , 2017 , 11, 10281-10288	16.7	64
4	Heterometallic antenna-reactor complexes for photocatalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 8916-20	11.5	272
3	Communicating Science Concepts to Individuals with Visual Impairments Using Short Learning Modules. <i>Journal of Chemical Education</i> , 2016 , 93, 2052-2057	2.4	3
2	Al-Pd Nanodisk Heterodimers as Antenna-Reactor Photocatalysts. <i>Nano Letters</i> , 2016 , 16, 6677-6682	11.5	154
1	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. <i>Science Advances</i> , 2015 , 1, e1500988	14.3	127