

# Daniel C Ratchford

## List of Publications by Year in descending order

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32  
papers

1,174  
citations

516710

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477307

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all docs

32  
docs citations

32  
times ranked

2098  
citing authors

#	ARTICLE	IF	CITATIONS
1	Propagating Surface Plasmon Induced Photon Emission from Quantum Dots. Nano Letters, 2009, 9, 4168-4171.	9.1	181
2	Manipulating Coupling between a Single Semiconductor Quantum Dot and Single Gold Nanoparticle. Nano Letters, 2011, 11, 1049-1054.	9.1	140
3	Quantification of Efficient Plasmonic Hot-Electron Injection in Gold Nanoparticle <sup>2</sup> Films. Nano Letters, 2017, 17, 6047-6055.	9.1	129
4	Active tuning of surface phonon polariton resonances via carrier photoinjection. Nature Photonics, 2018, 12, 50-56.	31.4	102
5	Decoupling Diameter and Pitch in Silicon Nanowire Arrays Made by Metal-Assisted Chemical Etching. Advanced Functional Materials, 2014, 24, 106-116.	14.9	86
6	Plasmon-Induced Charge Transfer: Challenges and Outlook. ACS Nano, 2019, 13, 13610-13614.	14.6	68
7	Controlled AFM manipulation of small nanoparticles and assembly of hybrid nanostructures. Nanotechnology, 2011, 22, 115301.	2.6	66
8	Modular assembly of optical nanocircuits. Nature Communications, 2014, 5, 3896.	12.8	51
9	Atomic Force Microscope Nanomanipulation with Simultaneous Visual Guidance. ACS Nano, 2009, 3, 2989-2994.	14.6	48
10	Photoinduced tunability of the reststrahlen band in $\text{Al}_2\text{O}_3/\text{GaN}$ heterostructures. Physical Review B, 2016, 93, .	3.0	37
11	Controlling the Infrared Dielectric Function through Atomic-Scale Heterostructures. ACS Nano, 2019, 13, 6730-6741.	14.6	33
12	Photoluminescence dynamics of ensemble and individual CdSe/ZnS quantum dots with an alloyed core/shell interface. Journal of Applied Physics, 2011, 109, 103509.	2.5	28
13	Surface plasmon polariton-induced hot carrier generation for photocatalysis. Nanoscale, 2017, 9, 3010-3022.	5.6	28
14	Electrospun Polymer Fibers Containing a Liquid Crystal Core: Insights into Semiflexible Confinement. Journal of Physical Chemistry C, 2018, 122, 16964-16973.	3.1	21
15	Enabling remote quantum emission in 2D semiconductors via porous metallic networks. Nature Communications, 2020, 11, 5.	12.8	20
16	Si Nanocrystals/ZnO Nanowires Hybrid Structures as Immobilized Photocatalysts for Photodegradation. Nanomaterials, 2020, 10, 491.	4.1	18
17	Influence of inhomogeneous porosity on silicon nanowire Raman enhancement and leaky mode modulated photoluminescence. Nanoscale, 2015, 7, 4124-4133.	5.6	16
18	Azobenzene-Doped Liquid Crystals in Electrospun Nanofibrous Mats for Photochemical Phase Control. ACS Applied Nano Materials, 2021, 4, 297-304.	5.0	15

#	ARTICLE	IF	CITATIONS
19	Ultrafast Active Tuning of the Berreman Mode. ACS Photonics, 2020, 7, 279-287.	6.6	14
20	Silicon nanowire arrays for the preconcentration and separation of trace explosives vapors. Journal of Chromatography A, 2019, 1597, 54-62.	3.7	13
21	Surfactant Modulated Phase Transitions of Liquid Crystals Confined in Electrospun Coaxial Fibers. Langmuir, 2020, 36, 7916-7924.	3.5	13
22	Hyperbolic phonon polariton resonances in calcite nanopillars. Optics Express, 2021, 29, 11760.	3.4	13
23	Pitch Control of Hexagonal Non-Close-Packed Nanosphere Arrays Using Isotropic Deformation of an Elastomer. Langmuir, 2017, 33, 12218-12226.	3.5	8
24	Photochemical phase and alignment control of a nematic liquid crystal in core-sheath nanofibers. Journal of Materials Chemistry C, 2021, 9, 12859-12867.	5.5	8
25	Surface- and Structural-Dependent Reactivity of Titanium Oxide Nanostructures with 2-Chloroethyl Ethyl Sulfide under Ambient Conditions. ACS Applied Materials & Interfaces, 2022, 14, 9655-9666.	8.0	6
26	Fabrication of metallic nanodisc hexagonal arrays using nanosphere lithography and two-step lift-off. Nanotechnology, 2016, 27, 395302.	2.6	5
27	Polarization Properties of a CdSe/ZnS and Au Nanoparticle Dimer. ChemPhysChem, 2012, 13, 2522-2525.	2.1	2
28	Rapid Bimolecular and Defect-Assisted Carrier Recombination in Hexagonal Boron Nitride. Journal of Physical Chemistry C, 2019, 123, 14689-14695.	3.1	2
29	Dynamic Interference Colors in Electrospun Microfibrous Mats. Advanced Optical Materials, 0, , 2200192.	7.3	2
30	Charge carrier spatial distribution effects in photomodulated reflectivity of 4H-SiC and GaN. Journal of Applied Physics, 2020, 128, 103102.	2.5	1
31	Silicon nanowire arrays for the preconcentration and Joule heating-based desorption of trace vapors. , 2017, , .		0
32	ZnO nanowire and silicon nanocrystal heterostructures for photocatalytic applications. , 2017, , .		0