

Daniel C Ratchford

List of Publications by Year in descending order

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32
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516710

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citing authors

#	ARTICLE	IF	CITATIONS
1	Surface- and Structural-Dependent Reactivity of Titanium Oxide Nanostructures with 2-Chloroethyl Ethyl Sulfide under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9655-9666.	8.0	6
2	Azobenzene-Doped Liquid Crystals in Electrospun Nanofibrous Mats for Photochemical Phase Control. <i>ACS Applied Nano Materials</i> , 2021, 4, 297-304.	5.0	15
3	Photochemical phase and alignment control of a nematic liquid crystal in core-sheath nanofibers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12859-12867.	5.5	8
4	Hyperbolic phonon polariton resonances in calcite nanopillars. <i>Optics Express</i> , 2021, 29, 11760.	3.4	13
5	Enabling remote quantum emission in 2D semiconductors via porous metallic networks. <i>Nature Communications</i> , 2020, 11, 5.	12.8	20
6	Ultrafast Active Tuning of the Berreman Mode. <i>ACS Photonics</i> , 2020, 7, 279-287.	6.6	14
7	Charge carrier spatial distribution effects in photomodulated reflectivity of 4H-SiC and GaN. <i>Journal of Applied Physics</i> , 2020, 128, 103102.	2.5	1
8	Si Nanocrystals/ZnO Nanowires Hybrid Structures as Immobilized Photocatalysts for Photodegradation. <i>Nanomaterials</i> , 2020, 10, 491.	4.1	18
9	Surfactant Modulated Phase Transitions of Liquid Crystals Confined in Electrospun Coaxial Fibers. <i>Langmuir</i> , 2020, 36, 7916-7924.	3.5	13
10	Rapid Bimolecular and Defect-Assisted Carrier Recombination in Hexagonal Boron Nitride. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14689-14695.	3.1	2
11	Controlling the Infrared Dielectric Function through Atomic-Scale Heterostructures. <i>ACS Nano</i> , 2019, 13, 6730-6741.	14.6	33
12	Silicon nanowire arrays for the preconcentration and separation of trace explosives vapors. <i>Journal of Chromatography A</i> , 2019, 1597, 54-62.	3.7	13
13	Plasmon-Induced Charge Transfer: Challenges and Outlook. <i>ACS Nano</i> , 2019, 13, 13610-13614.	14.6	68
14	Active tuning of surface phonon polariton resonances via carrier photoinjection. <i>Nature Photonics</i> , 2018, 12, 50-56.	31.4	102
15	Electrospun Polymer Fibers Containing a Liquid Crystal Core: Insights into Semiflexible Confinement. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16964-16973.	3.1	21
16	Surface plasmon polariton-induced hot carrier generation for photocatalysis. <i>Nanoscale</i> , 2017, 9, 3010-3022.	5.6	28
17	Pitch Control of Hexagonal Non-Close-Packed Nanosphere Arrays Using Isotropic Deformation of an Elastomer. <i>Langmuir</i> , 2017, 33, 12218-12226.	3.5	8
18	Quantification of Efficient Plasmonic Hot-Electron Injection in Gold Nanoparticle- TiO_2 Films. <i>Nano Letters</i> , 2017, 17, 6047-6055.	9.1	129

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19	Silicon nanowire arrays for the preconcentration and Joule heating-based desorption of trace vapors. , 2017, , .		0
20	ZnO nanowire and silicon nanocrystal heterostructures for photocatalytic applications. , 2017, , .		0
21	Fabrication of metallic nanodisc hexagonal arrays using nanosphere lithography and two-step lift-off. Nanotechnology, 2016, 27, 395302.	2.6	5
22	Photoinduced tunability of the reststrahlen band in Si_3N_4 . Physical Review B, 2016, 93, .	3.7	37
23	Influence of inhomogeneous porosity on silicon nanowire Raman enhancement and leaky mode modulated photoluminescence. Nanoscale, 2015, 7, 4124-4133.	5.6	16
24	Decoupling Diameter and Pitch in Silicon Nanowire Arrays Made by Metal-Assisted Chemical Etching. Advanced Functional Materials, 2014, 24, 106-116.	14.9	86
25	Modular assembly of optical nanocircuits. Nature Communications, 2014, 5, 3896.	12.8	51
26	Polarization Properties of a CdSe/ZnS and Au Nanoparticle Dimer. ChemPhysChem, 2012, 13, 2522-2525.	2.1	2
27	Manipulating Coupling between a Single Semiconductor Quantum Dot and Single Gold Nanoparticle. Nano Letters, 2011, 11, 1049-1054.	9.1	140
28	Controlled AFM manipulation of small nanoparticles and assembly of hybrid nanostructures. Nanotechnology, 2011, 22, 115301.	2.6	66
29	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
30	Propagating Surface Plasmon Induced Photon Emission from Quantum Dots. Nano Letters, 2009, 9, 4168-4171.	9.1	181
31	Atomic Force Microscope Nanomanipulation with Simultaneous Visual Guidance. ACS Nano, 2009, 3, 2989-2994.	14.6	48
32	Dynamic Interference Colors in Electrospun Microfibrous Mats. Advanced Optical Materials, 0, , 2200192.	7.3	2