

Blake B Simpkins

List of Publications by Year in descending order

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54
papers

1,932
citations

304743

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254184

43
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56
all docs

56
docs citations

56
times ranked

1996
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibration-Cavity Polariton Chemistry and Dynamics. Annual Review of Physical Chemistry, 2022, 73, 429-451.	10.8	58
2	Comparative analysis of polaritons in bulk, dielectric slabs, and planar cavities with implications for cavity-modified reactivity. Journal of Chemical Physics, 2022, 156, 034110.	3.0	13
3	Potential of TiN/GaN Heterostructures for Hot Carrier Generation and Collection. Nanomaterials, 2022, 12, 837.	4.1	3
4	Photoelectrochemical Methanol Oxidation Under Visible and UV Excitation of TiO ₂ -Supported TiN and ZrN Plasmonic Nanoparticles. Journal of the Electrochemical Society, 2021, 168, 016503.	2.9	7
5	Mode-Specific Chemistry through Vibrational Strong Coupling (or <i>A Wish Come True</i>). Journal of Physical Chemistry C, 2021, 125, 19081-19087.	3.1	48
6	Excited-state vibration-polariton transitions and dynamics in nitroprusside. Nature Communications, 2021, 12, 214.	12.8	51
7	Raman Scattering under Strong Vibration-Cavity Coupling. Journal of Physical Chemistry C, 2021, 125, 830-835.	3.1	10
8	Hyperuniform disordered metal-insulator-metal gap plasmon metasurface near perfect light absorber. Optical Materials Express, 2021, 11, 4083.	3.0	3
9	Enabling remote quantum emission in 2D semiconductors via porous metallic networks. Nature Communications, 2020, 11, 5.	12.8	20
10	Electrochemical Modulation of Strong Vibration-Cavity Coupling. ACS Photonics, 2020, 7, 165-173.	6.6	16
11	Spectroelectrochemical measurement and modulation of exciton-polaritons. APL Photonics, 2020, 5, 076107.	5.7	2
12	Synthesis, plasmonic properties, and CWA simulant decontamination activity of first row early transition metal nitride powders and nanomaterials. SN Applied Sciences, 2020, 2, 1.	2.9	1
13	Negligible Effect of Vibrational Polaritons on Chemical Reaction Rates via the Density of States Pathway. Journal of Physical Chemistry Letters, 2020, 11, 3557-3562.	4.6	63
14	Comparing Photoelectrochemical Methanol Oxidation Mechanisms for Gold versus Titanium Nitride Nanoparticles Dispersed in TiO ₂ Matrix. Journal of the Electrochemical Society, 2019, 166, H485-H493.	2.9	16
15	Saturable Absorption in Solution-Phase and Cavity-Coupled Tungsten Hexacarbonyl. ACS Photonics, 2019, 6, 2719-2725.	6.6	24
16	Photoelectrochemical Oxidation Enhanced by Nitride Plasmonics. Journal of Physical Chemistry C, 2019, 123, 13863-13868.	3.1	7
17	Energy-tunable photocatalysis by hot carriers generated by surface plasmon polaritons. Journal of Materials Chemistry A, 2019, 7, 7015-7024.	10.3	15
18	Manipulating optical nonlinearities of molecular polaritons by delocalization. Science Advances, 2019, 5, eaax5196.	10.3	57

#	ARTICLE	IF	CITATIONS
19	Examining Vibration-Cavity Polariton Dynamics via Ultrafast Infrared Spectroscopy. , 2019, , .		0
20	Two-dimensional infrared spectroscopy of vibrational polaritons. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4845-4850.	7.1	143
21	Ultrafast Transmission Modulation and Recovery via Vibrational Strong Coupling. Journal of Physical Chemistry A, 2018, 122, 965-971.	2.5	55
22	Vibrational relaxation of small anions in a polymer film. Chemical Physics, 2018, 512, 75-81.	1.9	1
23	Vibrational Strong Coupling Controlled by Spatial Distribution of Molecules within the Optical Cavity. ACS Photonics, 2018, 5, 158-166.	6.6	44
24	Theory for Nonlinear Spectroscopy of Vibrational Polaritons. Journal of Physical Chemistry Letters, 2018, 9, 3766-3771.	4.6	72
25	Photoelectrochemical Methanol Oxidation by TiN Nanoparticles Supported on TiO ₂ . ECS Transactions, 2018, 85, 1171-1177.	0.5	2
26	Surface plasmon polariton-induced hot carrier generation for photocatalysis. Nanoscale, 2017, 9, 3010-3022.	5.6	28
27	3-D near-field imaging of guided modes in nanophotonic waveguides. Nanophotonics, 2017, 6, 1141-1149.	6.0	9
28	Nanopatterning of GeTe phase change films via heated-probe lithography. Nanoscale, 2017, 9, 8815-8824.	5.6	23
29	Modified relaxation dynamics and coherent energy exchange in coupled vibration-cavity polaritons. Nature Communications, 2016, 7, 13504.	12.8	146
30	Resonance spectra of diablo optical antenna arrays. AIP Advances, 2015, 5, 107149.	1.3	3
31	Electrochemical Deposition and Spectroelectrochemical Response of Bromophenol Blue Films on Gold. Electroanalysis, 2015, 27, 1960-1967.	2.9	2
32	Optical Dark-Field and Electron Energy Loss Imaging and Spectroscopy of Symmetry-Forbidden Modes in Loaded Nanogap Antennas. ACS Nano, 2015, 9, 6222-6232.	14.6	10
33	Dry graphene transfer print to polystyrene and ultra-high molecular weight polyethylene â Detailed chemical, structural, morphological and electrical characterization. Carbon, 2015, 86, 288-300.	10.3	7
34	Spanning Strong to Weak Normal Mode Coupling between Vibrational and Fabry-Pérot Cavity Modes through Tuning of Vibrational Absorption Strength. ACS Photonics, 2015, 2, 1460-1467.	6.6	118
35	Coherent Coupling between a Molecular Vibration and Fabry-Pérot Optical Cavity to Give Hybridized States in the Strong Coupling Limit. ACS Photonics, 2015, 2, 130-136.	6.6	189
36	Optical interference effect corrections for absorbance spectra of layer-by-layer thin films bearing covalently bound dye. Chemical Physics Letters, 2014, 608, 328-333.	2.6	6

#	ARTICLE	IF	CITATIONS
37	Electron-Energy Loss and Optical Spectroscopy of Hybrid Nanogap-Antennas on Different Substrates. <i>Microscopy and Microanalysis</i> , 2014, 20, 602-603.	0.4	0
38	Controlling the Crystallinity of Electrochemically Deposited CdS Nanowires. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11843-11849.	3.1	5
39	Pitch-dependent resonances and near-field coupling in infrared nanoantenna arrays. <i>Optics Express</i> , 2012, 20, 27725.	3.4	34
40	Space-charge-limited currents and trap characterization in coaxial AlGaIn/GaN nanowires. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	31
41	Polarization and Space-Charge-Limited Current in III-Nitride Heterostructure Nanowires. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 3401-3406.	3.0	9
42	Propagation length of surface plasmon polaritons determined by emission from introduced surface discontinuities. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	10
43	Transverse-microcavity modulation of photoluminescence from GaN nanowires. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	3
44	Transmission efficiency of surface plasmon polaritons across gaps in gold waveguides. <i>Applied Physics Letters</i> , 2010, 96, 111101.	3.3	14
45	Polarization fields in III-nitride nanowire devices. <i>Nanotechnology</i> , 2010, 21, 145205.	2.6	27
46	Magnetic moment degradation of nanowires in biological media: real-time monitoring with SQUID magnetometry. <i>Nanotechnology</i> , 2010, 21, 285101.	2.6	13
47	Induced Epitaxy for Growth of Aligned Indium Nitride Nano- and Microrods. <i>Crystal Growth and Design</i> , 2010, 10, 3887-3891.	3.0	12
48	Surface-Induced Transients in Gallium Nitride Nanowires. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9480-9485.	3.1	13
49	Surface depletion effects in semiconducting nanowires. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	92
50	Fabrication and characterization of DNA-functionalized GaN nanowires. <i>Nanotechnology</i> , 2007, 18, 355301.	2.6	34
51	Far-field Imaging of Optical Second-Harmonic Generation in Single GaN Nanowires. <i>Nano Letters</i> , 2007, 7, 831-836.	9.1	97
52	Local conductivity and surface photovoltage variations due to magnesium segregation in p-type GaN. <i>Journal of Applied Physics</i> , 2004, 95, 6225-6231.	2.5	19
53	Correlated scanning Kelvin probe and conductive atomic force microscopy studies of dislocations in gallium nitride. <i>Journal of Applied Physics</i> , 2003, 94, 1448-1453.	2.5	190
54	Scanning Kelvin probe microscopy of surface electronic structure in GaN grown by hydride vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2002, 91, 9924.	2.5	43