

Scott Cushing

List of Publications by Year in descending order

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53
papers

7,647
citations

147801

31
h-index

175258

52
g-index

54
all docs

54
docs citations

54
times ranked

11912
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic Activity Enhanced by Plasmonic Resonant Energy Transfer from Metal to Semiconductor. <i>Journal of the American Chemical Society</i> , 2012, 134, 15033-15041.	13.7	1,052
2	Plasmon-enhanced optical sensors: a review. <i>Analyst, The</i> , 2015, 140, 386-406.	3.5	784
3	Solar Hydrogen Generation by Nanoscale <i>n</i> - <i>p</i> -type Molybdenum Disulfide/ <i>n</i> -type Nitrogen-Doped Reduced Graphene Oxide. <i>Journal of the American Chemical Society</i> , 2013, 135, 10286-10289.	13.7	599
4	Plasmon-induced resonance energy transfer for solar energy conversion. <i>Nature Photonics</i> , 2015, 9, 601-607.	31.4	587
5	Solar Hydrogen Generation by a CdS-Au-TiO ₂ Sandwich Nanorod Array Enhanced with Au Nanoparticle as Electron Relay and Plasmonic Photosensitizer. <i>Journal of the American Chemical Society</i> , 2014, 136, 8438-8449.	13.7	533
6	Ag@Cu ₂ O Core-Shell Nanoparticles as Visible-Light Plasmonic Photocatalysts. <i>ACS Catalysis</i> , 2013, 3, 47-51.	11.2	471
7	Origin of Strong Excitation Wavelength Dependent Fluorescence of Graphene Oxide. <i>ACS Nano</i> , 2014, 8, 1002-1013.	14.6	328
8	Three-Dimensional Hierarchical Plasmonic Nano-Architecture Enhanced Surface-Enhanced Raman Scattering Immunosensor for Cancer Biomarker Detection in Blood Plasma. <i>ACS Nano</i> , 2013, 7, 4967-4976.	14.6	241
9	Photocatalytic Water Oxidation by Hematite/Reduced Graphene Oxide Composites. <i>ACS Catalysis</i> , 2013, 3, 746-751.	11.2	226
10	Progress and Perspectives of Plasmon-Enhanced Solar Energy Conversion. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 666-675.	4.6	220
11	Controlling Plasmon-Induced Resonance Energy Transfer and Hot Electron Injection Processes in Metal@TiO ₂ Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16239-16244.	3.1	219
12	The ultrafast X-ray spectroscopic revolution in chemical dynamics. <i>Nature Reviews Chemistry</i> , 2018, 2, 82-94.	30.2	215
13	Size-Dependent Energy Transfer between CdSe/ZnS Quantum Dots and Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2125-2129.	4.6	200
14	Fingerprinting photoluminescence of functional groups in graphene oxide. <i>Journal of Materials Chemistry</i> , 2012, 22, 23374.	6.7	198
15	Excitation-wavelength-dependent small polaron trapping of photoexcited carriers in $\hat{\pm}$ -Fe ₂ O ₃ . <i>Nature Materials</i> , 2017, 16, 819-825.	27.5	178
16	Effects of Defects on Photocatalytic Activity of Hydrogen-Treated Titanium Oxide Nanobelts. <i>ACS Catalysis</i> , 2017, 7, 1742-1748.	11.2	173
17	Shape-dependent surface-enhanced Raman scattering in gold- <i>Raman-probe</i> -silica sandwiched nanoparticles for biocompatible applications. <i>Nanotechnology</i> , 2012, 23, 115501.	2.6	166
18	Plasmonic Nanorice Antenna on Triangle Nanoarray for Surface-Enhanced Raman Scattering Detection of Hepatitis B Virus DNA. <i>Analytical Chemistry</i> , 2013, 85, 2072-2078.	6.5	141

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19	Enhancement of Solar Hydrogen Generation by Synergistic Interaction of $\text{La}_{2}\text{Ti}_{2}\text{O}_{7}$ Photocatalyst with Plasmonic Gold Nanoparticles and Reduced Graphene Oxide Nanosheets. <i>ACS Catalysis</i> , 2015, 5, 1949-1955.	11.2	122
20	Direct and simultaneous observation of ultrafast electron and hole dynamics in germanium. <i>Nature Communications</i> , 2017, 8, 15734.	12.8	117
21	A gold nanohole array based surface-enhanced Raman scattering biosensor for detection of silver and mercury in human saliva. <i>Nanoscale</i> , 2015, 7, 11005-11012.	5.6	98
22	Tailoring plasmonic properties of gold nanohole arrays for surface-enhanced Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21211-21219.	2.8	69
23	Theoretical maximum efficiency of solar energy conversion in plasmonic metal-semiconductor heterojunctions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30013-30022.	2.8	58
24	Photocatalytic hydrogen generation enhanced by band gap narrowing and improved charge carrier mobility in AgTaO_3 by compensated co-doping. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16220.	2.8	54
25	Asymmetric Silver Nanocorrot Structures: Solution Synthesis and Their Asymmetric Plasmonic Resonances. <i>Journal of the American Chemical Society</i> , 2013, 135, 9616-9619.	13.7	43
26	Ultrafast carrier thermalization and trapping in silicon-germanium alloy probed by extreme ultraviolet transient absorption spectroscopy. <i>Structural Dynamics</i> , 2017, 4, 044029.	2.3	42
27	Femtosecond tracking of carrier relaxation in germanium with extreme ultraviolet transient reflectivity. <i>Physical Review B</i> , 2018, 97, .	3.2	40
28	Hot phonon and carrier relaxation in Si(100) determined by transient extreme ultraviolet spectroscopy. <i>Structural Dynamics</i> , 2018, 5, 054302.	2.3	39
29	Band gap narrowing in nitrogen-doped $\text{La}_{2}\text{Ti}_{2}\text{O}_{7}$ predicted by density-functional theory calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8994-9000.	2.8	37
30	Entangled light-matter interactions and spectroscopy. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10732-10741.	5.5	34
31	Molecular hot spots in surface-enhanced Raman scattering. <i>Nanoscale</i> , 2020, 12, 22036-22041.	5.6	33
32	Layer-resolved ultrafast extreme ultraviolet measurement of hole transport in a Ni-TiO ₂ -Si photoanode. <i>Science Advances</i> , 2020, 6, eaay6650.	10.3	29
33	Photoexcited Small Polaron Formation in Goethite (FeOOH) Nanorods Probed by Transient Extreme Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4120-4124.	4.6	26
34	Distinguishing surface effects of gold nanoparticles from plasmonic effect on photoelectrochemical water splitting by hematite. <i>Journal of Materials Research</i> , 2016, 31, 1608-1615.	2.6	25
35	Inverting Transient Absorption Data to Determine Transfer Rates in Quantum Dot-TiO ₂ Heterostructures. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6337-6343.	3.1	24
36	Differentiating Photoexcited Carrier and Phonon Dynamics in the Γ , L , and Δ Valleys of Si(100) with Transient Extreme Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3343-3352.	3.1	23

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37	Excitation wavelength dependent fluorescence of graphene oxide controlled by strain. <i>Nanoscale</i> , 2017, 9, 2240-2245.	5.6	21
38	Plasmonic hot carriers skip out in femtoseconds. <i>Nature Photonics</i> , 2017, 11, 748-749.	31.4	21
39	Electron thermalization and relaxation in laser-heated nickel by few-femtosecond core-level transient absorption spectroscopy. <i>Physical Review B</i> , 2021, 103, .	3.2	21
40	A Surface-Enhanced Raman Scattering Sensor Integrated with Battery-Controlled Fluidic Device for Capture and Detection of Trace Small Molecules. <i>Scientific Reports</i> , 2015, 5, 12865.	3.3	19
41	Investigation of the plasmonic effect in air-processed PbS/CdS core-shell quantum dot based solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13071-13080.	10.3	18
42	Investigation of band gap narrowing in nitrogen-doped $\text{La}_2\text{Ti}_2\text{O}_7$ with transient absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31039-31043.	2.8	15
43	Origin of localized surface plasmon resonances in thin silver film over nanosphere patterns. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 955-958.	2.3	14
44	Element-specific electronic and structural dynamics using transient XUV and soft X-ray spectroscopy. <i>CheM</i> , 2021, 7, 2569-2584.	11.7	14
45	Photoluminescence spectroscopy of YVO ₄ :Eu ³⁺ nanoparticles with aromatic linker molecules: A precursor to biomedical functionalization. <i>Journal of Applied Physics</i> , 2014, 115, 163107.	2.5	13
46	Single-Photon Scattering Can Account for the Discrepancies among Entangled Two-Photon Measurement Techniques. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4934-4940.	4.6	12
47	Prediction of Excited-State and Polaron Effects in Transient XUV Measurements of Fe_2O_3 . <i>Journal of the American Chemical Society</i> , 2022, 144, 12834-12841.	13.7	10
48	Measuring the Surface Photovoltage of a Schottky Barrier under Intense Light Conditions: Zn/p-Si(100) by Laser Time-Resolved Extreme Ultraviolet Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21904-21912.	3.1	9
49	Designing high-power, octave spanning entangled photon sources for quantum spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 154, 244201.	3.0	7
50	Characterization of Carrier Cooling Bottleneck in Silicon Nanoparticles by Extreme Ultraviolet (XUV) Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9319-9329.	3.1	6
51	Electrodeposition of Poly(phenylene oxide) Nanoscale Patterns with Nanosphere Lithography. <i>ECS Transactions</i> , 2009, 19, 159-164.	0.5	2
52	Transient extreme ultraviolet measurement of element-specific charge transfer dynamics in multiple-material junctions. , 2019, , .		0
53	Transient Extreme Ultraviolet Measurement of Carrier Dynamics in Solar Fuel Materials. , 2020, , .		0