

# Scott Cushing

## List of Publications by Year in descending order

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53  
papers

7,647  
citations

147726

31  
h-index

175177

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.	6.6	1,052
2	Plasmon-enhanced optical sensors: a review. <i>Analyst</i> , 2015, 140, 386-406.	1.7	784
3	Solar Hydrogen Generation by Nanoscale <i>n-p</i> Junction of <i>n</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.	6.6	599
4	Plasmon-induced resonance energy transfer for solar energy conversion. <i>Nature Photonics</i> , 2015, 9, 601-607.	15.6	587
5	Solar Hydrogen Generation by a CdS-Au-TiO <sub>2</sub> 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.	6.6	533
6	Ag@Cu <sub>2</sub> O Core-Shell Nanoparticles as Visible-Light Plasmonic Photocatalysts. <i>ACS Catalysis</i> , 2013, 3, 47-51.	5.5	471
7	Origin of Strong Excitation Wavelength Dependent Fluorescence of Graphene Oxide. <i>ACS Nano</i> , 2014, 8, 1002-1013.	7.3	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.	7.3	241
9	Photocatalytic Water Oxidation by Hematite/Reduced Graphene Oxide Composites. <i>ACS Catalysis</i> , 2013, 3, 746-751.	5.5	226
10	Progress and Perspectives of Plasmon-Enhanced Solar Energy Conversion. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 666-675.	2.1	220
11	Controlling Plasmon-Induced Resonance Energy Transfer and Hot Electron Injection Processes in Metal@TiO <sub>2</sub> Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16239-16244.	1.5	219
12	The ultrafast X-ray spectroscopic revolution in chemical dynamics. <i>Nature Reviews Chemistry</i> , 2018, 2, 82-94.	13.8	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.	2.1	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 <sub>2</sub> O <sub>3</sub> . <i>Nature Materials</i> , 2017, 16, 819-825.	13.3	178
16	Effects of Defects on Photocatalytic Activity of Hydrogen-Treated Titanium Oxide Nanobelts. <i>ACS Catalysis</i> , 2017, 7, 1742-1748.	5.5	173
17	Shape-dependent surface-enhanced Raman scattering in gold-Raman-probe-silica sandwiched nanoparticles for biocompatible applications. <i>Nanotechnology</i> , 2012, 23, 115501.	1.3	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.	3.2	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.	5.5	122
20	Direct and simultaneous observation of ultrafast electron and hole dynamics in germanium. <i>Nature Communications</i> , 2017, 8, 15734.	5.8	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.	2.8	98
22	Tailoring plasmonic properties of gold nanohole arrays for surface-enhanced Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21211-21219.	1.3	69
23	Theoretical maximum efficiency of solar energy conversion in plasmonic metal-semiconductor heterojunctions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30013-30022.	1.3	58
24	Photocatalytic hydrogen generation enhanced by band gap narrowing and improved charge carrier mobility in $\text{AgTaO}_3$ by compensated co-doping. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16220.	1.3	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.	6.6	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.	0.9	42
27	Femtosecond tracking of carrier relaxation in germanium with extreme ultraviolet transient reflectivity. <i>Physical Review B</i> , 2018, 97, .	1.1	40
28	Hot phonon and carrier relaxation in Si(100) determined by transient extreme ultraviolet spectroscopy. <i>Structural Dynamics</i> , 2018, 5, 054302.	0.9	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.	1.3	37
30	Entangled light-matter interactions and spectroscopy. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10732-10741.	2.7	34
31	Molecular hot spots in surface-enhanced Raman scattering. <i>Nanoscale</i> , 2020, 12, 22036-22041.	2.8	33
32	Layer-resolved ultrafast extreme ultraviolet measurement of hole transport in a Ni-TiO <sub>2</sub> -Si photoanode. <i>Science Advances</i> , 2020, 6, eaay6650.	4.7	29
33	Photoexcited Small Polaron Formation in Goethite ( $\hat{\pm}$ -FeOOH) Nanorods Probed by Transient Extreme Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4120-4124.	2.1	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.	1.2	25
35	Inverting Transient Absorption Data to Determine Transfer Rates in Quantum Dot-TiO <sub>2</sub> Heterostructures. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6337-6343.	1.5	24
36	Differentiating Photoexcited Carrier and Phonon Dynamics in the $\hat{\nu}$ , $\langle i \rangle$ , and $\hat{\nu}$ Valleys of Si(100) with Transient Extreme Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3343-3352.	1.5	23

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37	Excitation wavelength dependent fluorescence of graphene oxide controlled by strain. <i>Nanoscale</i> , 2017, 9, 2240-2245.	2.8	21
38	Plasmonic hot carriers skip out in femtoseconds. <i>Nature Photonics</i> , 2017, 11, 748-749.	15.6	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, .	1.1	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.	1.6	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.	5.2	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.	1.3	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.	1.1	14
44	Element-specific electronic and structural dynamics using transient XUV and soft X-ray spectroscopy. <i>CheM</i> , 2021, 7, 2569-2584.	5.8	14
45	Photoluminescence spectroscopy of YVO <sub>4</sub> :Eu <sup>3+</sup> nanoparticles with aromatic linker molecules: A precursor to biomedical functionalization. <i>Journal of Applied Physics</i> , 2014, 115, 163107.	1.1	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.	2.1	12
47	Prediction of Excited-State and Polaron Effects in Transient XUV Measurements of $\text{Fe}_{2}\text{O}_{3}$ . <i>Journal of the American Chemical Society</i> , 2022, 144, 12834-12841.	6.6	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.	1.5	9
49	Designing high-power, octave spanning entangled photon sources for quantum spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 154, 244201.	1.2	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.	1.5	6
51	Electrodeposition of Poly(phenylene oxide) Nanoscale Patterns with Nanosphere Lithography. <i>ECS Transactions</i> , 2009, 19, 159-164.	0.3	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