Scott Cushing

List of Publications by Year
in descending order

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53	7,647	147801	175258
papers	citations	31 h-index	52 g-index

54	54	54	11912
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-Photon Scattering Can Account for the Discrepancies among Entangled Two-Photon Measurement Techniques. Journal of Physical Chemistry Letters, 2022, 13, 4934-4940.	4.6	12
2	Ab Initio Prediction of Excited-State and Polaron Effects in Transient XUV Measurements of Î±-Fe₂O₃. Journal of the American Chemical Society, 2022, 144, 12834-12841.	13.7	10
3	Electron thermalization and relaxation in laser-heated nickel by few-femtosecond core-level transient absorption spectroscopy. Physical Review B, 2021, 103, .	3.2	21
4	Characterization of Carrier Cooling Bottleneck in Silicon Nanoparticles by Extreme Ultraviolet (XUV) Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 9319-9329.	3.1	6
5	Designing high-power, octave spanning entangled photon sources for quantum spectroscopy. Journal of Chemical Physics, 2021, 154, 244201.	3.0	7
6	Element-specific electronic and structural dynamics using transient XUV and soft X-ray spectroscopy. CheM, 2021, 7, 2569-2584.	11.7	14
7	Molecular hot spots in surface-enhanced Raman scattering. Nanoscale, 2020, 12, 22036-22041.	5.6	33
8	Layer-resolved ultrafast extreme ultraviolet measurement of hole transport in a Ni-TiO ₂ -Si photoanode. Science Advances, 2020, 6, eaay6650.	10.3	29
9	Entangled lightâ€“matter interactions and spectroscopy. Journal of Materials Chemistry C, 2020, 8, 10732-10741.	5.5	34
10	Transient Extreme Ultraviolet Measurement of Carrier Dynamics in Solar Fuel Materials. , 2020, , .		0
11	Differentiating Photoexcited Carrier and Phonon Dynamics in the Î”, L, and Î“ Valleys of Si(100) with Transient Extreme Ultraviolet Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 3343-3352.	3.1	23
12	Transient extreme ultraviolet measurement of element-specific charge transfer dynamics in multiple-material junctions. , 2019, , .		0
13	Hot phonon and carrier relaxation in Si(100) determined by transient extreme ultraviolet spectroscopy. Structural Dynamics, 2018, 5, 054302.	2.3	39
14	The ultrafast X-ray spectroscopic revolution in chemical dynamics. Nature Reviews Chemistry, 2018, 2, 82-94.	30.2	215
15	Femtosecond tracking of carrier relaxation in germanium with extreme ultraviolet transient reflectivity. Physical Review B, 2018, 97, .	3.2	40
16	Photoexcited Small Polaron Formation in Goethite (Î±-FeOOH) Nanorods Probed by Transient Extreme Ultraviolet Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 4120-4124.	4.6	26
17	Effects of Defects on Photocatalytic Activity of Hydrogen-Treated Titanium Oxide Nanobelts. ACS Catalysis, 2017, 7, 1742-1748.	11.2	173
18	Excitation wavelength dependent fluorescence of graphene oxide controlled by strain. Nanoscale, 2017, 9, 2240-2245.	5.6	21

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19	Direct and simultaneous observation of ultrafast electron and hole dynamics in germanium. Nature Communications, 2017, 8, 15734.	12.8	117
20	Ultrafast carrier thermalization and trapping in silicon-germanium alloy probed by extreme ultraviolet transient absorption spectroscopy. Structural Dynamics, 2017, 4, 044029.	2.3	42
21	Measuring the Surface Photovoltage of a Schottky Barrier under Intense Light Conditions: Zn/p-Si(100) by Laser Time-Resolved Extreme Ultraviolet Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 21904-21912.	3.1	9
22	Plasmonic hot carriers skip out in femtoseconds. Nature Photonics, 2017, 11, 748-749.	31.4	21
23	Excitation-wavelength-dependent small polaron trapping of photoexcited carriers in Î±-Fe2O3. Nature Materials, 2017, 16, 819-825.	27.5	178
24	Investigation of the plasmonic effect in air-processed PbS/CdS coreâ€“shell quantum dot based solar cells. Journal of Materials Chemistry A, 2016, 4, 13071-13080.	10.3	18
25	Distinguishing surface effects of gold nanoparticles from plasmonic effect on photoelectrochemical water splitting by hematite. Journal of Materials Research, 2016, 31, 1608-1615.	2.6	25
26	Progress and Perspectives of Plasmon-Enhanced Solar Energy Conversion. Journal of Physical Chemistry Letters, 2016, 7, 666-675.	4.6	220
27	A Surface-Enhanced Raman Scattering Sensor Integrated with Battery-Controlled Fluidic Device for Capture and Detection of Trace Small Molecules. Scientific Reports, 2015, 5, 12865.	3.3	19
28	A gold nanohole array based surface-enhanced Raman scattering biosensor for detection of silver(<scp>i</scp>) and mercury(<scp>ii</scp>) in human saliva. Nanoscale, 2015, 7, 11005-11012.	5.6	98
29	Enhancement of Solar Hydrogen Generation by Synergistic Interaction of La₂Ti₂O₇ Photocatalyst with Plasmonic Gold Nanoparticles and Reduced Graphene Oxide Nanosheets. ACS Catalysis, 2015, 5, 1949-1955.	11.2	122
30	Tailoring plasmonic properties of gold nanohole arrays for surface-enhanced Raman scattering. Physical Chemistry Chemical Physics, 2015, 17, 21211-21219.	2.8	69
31	Inverting Transient Absorption Data to Determine Transfer Rates in Quantum Dotâ€“TiO₂ Heterostructures. Journal of Physical Chemistry C, 2015, 119, 6337-6343.	3.1	24
32	Controlling Plasmon-Induced Resonance Energy Transfer and Hot Electron Injection Processes in Metal@TiO₂ Coreâ€“Shell Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 16239-16244.	3.1	219
33	Band gap narrowing in nitrogen-doped La₂Ti₂O₇ predicted by density-functional theory calculations. Physical Chemistry Chemical Physics, 2015, 17, 8994-9000.	2.8	37
34	Theoretical maximum efficiency of solar energy conversion in plasmonic metalâ€“semiconductor heterojunctions. Physical Chemistry Chemical Physics, 2015, 17, 30013-30022.	2.8	58
35	Investigation of band gap narrowing in nitrogen-doped La₂Ti₂O₇ with transient absorption spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 31039-31043.	2.8	15
36	Plasmon-induced resonance energy transfer for solar energy conversion. Nature Photonics, 2015, 9, 601-607.	31.4	587

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37	Plasmon-enhanced optical sensors: a review. Analyst, The, 2015, 140, 386-406.	3.5	784
38	Photoluminescence spectroscopy of YVO4:Eu3+ nanoparticles with aromatic linker molecules: A precursor to biomedical functionalization. Journal of Applied Physics, 2014, 115, 163107.	2.5	13
39	Origin of Strong Excitation Wavelength Dependent Fluorescence of Graphene Oxide. ACS Nano, 2014, 8, 1002-1013.	14.6	328
40	Solar Hydrogen Generation by a CdS-Au-TiO₂ Sandwich Nanorod Array Enhanced with Au Nanoparticle as Electron Relay and Plasmonic Photosensitizer. Journal of the American Chemical Society, 2014, 136, 8438-8449.	13.7	533
41	Photocatalytic hydrogen generation enhanced by band gap narrowing and improved charge carrier mobility in AgTaO3 by compensated co-doping. Physical Chemistry Chemical Physics, 2013, 15, 16220.	2.8	54
42	Plasmonic Nanorice Antenna on Triangle Nanoarray for Surface-Enhanced Raman Scattering Detection of Hepatitis B Virus DNA. Analytical Chemistry, 2013, 85, 2072-2078.	6.5	141
43	Ag@Cu₂O Core-Shell Nanoparticles as Visible-Light Plasmonic Photocatalysts. ACS Catalysis, 2013, 3, 47-51.	11.2	471
44	Photocatalytic Water Oxidation by Hematite/Reduced Graphene Oxide Composites. ACS Catalysis, 2013, 3, 746-751.	11.2	226
45	Asymmetric Silver â€œNanocarrotâ€•Structures: Solution Synthesis and Their Asymmetric Plasmonic Resonances. Journal of the American Chemical Society, 2013, 135, 9616-9619.	13.7	43
46	Three-Dimensional Hierarchical Plasmonic Nano-Architecture Enhanced Surface-Enhanced Raman Scattering Immunosensor for Cancer Biomarker Detection in Blood Plasma. ACS Nano, 2013, 7, 4967-4976.	14.6	241
47	Solar Hydrogen Generation by Nanoscale pâ€“n Junction of p-type Molybdenum Disulfide/n-type Nitrogen-Doped Reduced Graphene Oxide. Journal of the American Chemical Society, 2013, 135, 10286-10289.	13.7	599
48	Photocatalytic Activity Enhanced by Plasmonic Resonant Energy Transfer from Metal to Semiconductor. Journal of the American Chemical Society, 2012, 134, 15033-15041.	13.7	1,052
49	Fingerprinting photoluminescence of functional groups in graphene oxide. Journal of Materials Chemistry, 2012, 22, 23374.	6.7	198
50	Shape-dependent surface-enhanced Raman scattering in goldâ€“Raman-probeâ€“silica sandwiched nanoparticles for biocompatible applications. Nanotechnology, 2012, 23, 115501.	2.6	166
51	Size-Dependent Energy Transfer between CdSe/ZnS Quantum Dots and Gold Nanoparticles. Journal of Physical Chemistry Letters, 2011, 2, 2125-2129.	4.6	200
52	Origin of localized surface plasmon resonances in thin silver film over nanosphere patterns. Applied Physics A: Materials Science and Processing, 2011, 103, 955-958.	2.3	14
53	Electrodeposition of Poly(phenylene oxide) Nanoscale Patterns with Nanosphere Lithography. ECS Transactions, 2009, 19, 159-164.	0.5	2