

Emily A Smith

List of Publications by Year in descending order

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113
papers

4,110
citations

159358

30
h-index

128067

60
g-index

113
all docs

113
docs citations

113
times ranked

6176
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Plasmon Resonance Imaging Studies of Protein-Carbohydrate Interactions. <i>Journal of the American Chemical Society</i> , 2003, 125, 6140-6148.	6.6	475
2	Shape Evolution and Single Particle Luminescence of Organometal Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2015, 9, 2948-2959.	7.3	252
3	Single Cell Optical Imaging and Spectroscopy. <i>Chemical Reviews</i> , 2013, 113, 2469-2527.	23.0	250
4	BODIPY-Derived Photoremovable Protecting Groups Unmasked with Green Light. <i>Journal of the American Chemical Society</i> , 2015, 137, 3783-3786.	6.6	206
5	Family of BODIPY Photocages Cleaved by Single Photons of Visible/Near-Infrared Light. <i>Journal of the American Chemical Society</i> , 2018, 140, 7343-7346.	6.6	205
6	Formation, Spectroscopic Characterization, and Application of Sulfhydryl-Terminated Alkanethiol Monolayers for the Chemical Attachment of DNA onto Gold Surfaces. <i>Langmuir</i> , 2001, 17, 2502-2507.	1.6	162
7	Surface Plasmon Resonance Imaging as a Tool to Monitor Biomolecular Interactions in an Array Based Format. <i>Applied Spectroscopy</i> , 2003, 57, 320A-332A.	1.2	148
8	Flexible Laser-Induced Graphene for Nitrogen Sensing in Soil. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39124-39133.	4.0	117
9	The Distance-Dependence of Colloidal Au-Amplified Surface Plasmon Resonance. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10973-10980.	1.2	115
10	Lead Halide Perovskites: Challenges and Opportunities in Advanced Synthesis and Spectroscopy. <i>ACS Energy Letters</i> , 2017, 2, 906-914.	8.8	97
11	Aerosol-Jet-Printed Graphene Immunosensor for Label-Free Cytokine Monitoring in Serum. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8592-8603.	4.0	87
12	A Photoactivatable BODIPY Probe for Localization-Based Super-Resolution Cellular Imaging. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12685-12689.	7.2	85
13	Efficient Far-Red/Near-IR Absorbing BODIPY Photocages by Blocking Unproductive Conical Intersections. <i>Journal of the American Chemical Society</i> , 2020, 142, 15505-15512.	6.6	82
14	Evaluation of nanoparticle-immobilized cellulase for improved ethanol yield in simultaneous saccharification and fermentation reactions. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2835-2843.	1.7	78
15	Surface Plasmon Resonance Imaging of Transcription Factor Proteins: Interactions of Bacterial Response Regulators with DNA Arrays on Gold Films. <i>Langmuir</i> , 2003, 19, 1486-1492.	1.6	65
16	Macroporous Carbon Supported Zerovalent Iron for Remediation of Trichloroethylene. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1586-1593.	3.2	63
17	Aerosol-jet-printed graphene electrochemical histamine sensors for food safety monitoring. <i>2D Materials</i> , 2020, 7, 034002.	2.0	61
18	Silicene, Siloxene, or Silicane? Revealing the Structure and Optical Properties of Silicon Nanosheets Derived from Calcium Disilicide. <i>Chemistry of Materials</i> , 2020, 32, 795-804.	3.2	59

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19	Chemically Induced Hairpin Formation in DNA Monolayers. <i>Journal of the American Chemical Society</i> , 2002, 124, 6810-6811.	6.6	52
20	Determination of glucose and ethanol after enzymatic hydrolysis and fermentation of biomass using Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2009, 653, 200-206.	2.6	52
21	Calcination does not remove all carbon from colloidal nanocrystal assemblies. <i>Nature Communications</i> , 2017, 8, 2038.	5.8	52
22	Characterization of Woody and Herbaceous Biomasses Lignin Composition with 1064 nm Dispersive Multichannel Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2012, 66, 903-910.	1.2	50
23	1064nm dispersive multichannel Raman spectroscopy for the analysis of plant lignin. <i>Analytica Chimica Acta</i> , 2011, 706, 164-170.	2.6	48
24	Lipid Bilayers on Polyacrylamide Brushes for Inclusion of Membrane Proteins. <i>Langmuir</i> , 2005, 21, 9644-9650.	1.6	47
25	Unveiling the Photo- and Thermal Stability of Cesium Lead Halide Perovskite Nanocrystals. <i>ChemPhysChem</i> , 2019, 20, 2647-2656.	1.0	44
26	Plasmon Waveguide Resonance Raman Spectroscopy. <i>Analytical Chemistry</i> , 2012, 84, 9049-9055.	3.2	41
27	Tuning the Structure, Conductivity, and Wettability of Laser-Induced Graphene for Multiplexed Open Microfluidic Environmental Biosensing and Energy Storage Devices. <i>ACS Nano</i> , 2022, 16, 15-28.	7.3	40
28	Optimization of silver nanoparticles for surface enhanced Raman spectroscopy of structurally diverse analytes using visible and near-infrared excitation. <i>Analyst</i> , 2011, 136, 3542.	1.7	39
29	Supercontinuum Stimulated Emission Depletion Fluorescence Lifetime Imaging. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7821-7826.	1.2	39
30	Haploid differentiation in maize kernels based on fluorescence imaging. <i>Plant Breeding</i> , 2016, 135, 439-445.	1.0	37
31	Electrochemical Sensing of Neonicotinoids Using Laser-Induced Graphene. <i>ACS Sensors</i> , 2021, 6, 3063-3071.	4.0	34
32	Raman Imaging in Cell Membranes, Lipid-Rich Organelles, and Lipid Bilayers. <i>Annual Review of Analytical Chemistry</i> , 2017, 10, 271-291.	2.8	32
33	Subdiffraction, Luminescence-Depletion Imaging of Isolated, Giant, CdSe/CdS Nanocrystal Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3662-3667.	1.5	31
34	Raman spectroscopy measurements of glucose and xylose in hydrolysate: Role of corn stover pretreatment and enzyme composition. <i>Bioresource Technology</i> , 2011, 102, 5169-5176.	4.8	29
35	Stability of Pd nanoparticles on carbon-coated supports under hydrothermal conditions. <i>Catalysis Science and Technology</i> , 2018, 8, 1151-1160.	2.1	28
36	Near IR Scanning Angle Total Internal Reflection Raman Spectroscopy at Smooth Gold Films. <i>Analytical Chemistry</i> , 2012, 84, 4300-4306.	3.2	27

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37	Interfacial Control of Catalytic Activity in the Aldol Condensation: Combining the Effects of Hydrophobic Environments and Water. <i>ACS Catalysis</i> , 2019, 9, 5574-5582.	5.5	27
38	Photophysical properties of wavelength-tunable methylammonium lead halide perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , 2017, 5, 118-126.	2.7	26
39	What Is the Best Method to Fit Time-Resolved Data? A Comparison of the Residual Minimization and the Maximum Likelihood Techniques As Applied to Experimental Time-Correlated, Single-Photon Counting Data. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2484-2490.	1.2	25
40	Development of a scanning angle total internal reflection Raman spectrometer. <i>Review of Scientific Instruments</i> , 2010, 81, 043106.	0.6	24
41	Magnetic ionic liquids based on transition metal complexes with <i>N</i> -alkylimidazole ligands. <i>New Journal of Chemistry</i> , 2019, 43, 20-23.	1.4	24
42	Catalyst Property Effects on Product Distribution during the Hydrodeoxygenation of Lignin Pyrolysis Vapors over MoO ₃ / γ -Al ₂ O ₃ . <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6685-6696.	3.2	24
43	Direct Photorelease of Alcohols from Boron-Alkylated BODIPY Photocages. <i>Journal of Organic Chemistry</i> , 2020, 85, 5712-5717.	1.7	23
44	Local Structural Disorder in Metavanadates MV ₂ O ₆ (M = Zn and Cu) Synthesized by the Deep Eutectic Solvent Route: Photoactive Oxides with Oxygen Vacancies. <i>Chemistry of Materials</i> , 2021, 33, 1667-1682.	3.2	21
45	Scanning Angle Plasmon Waveguide Resonance Raman Spectroscopy for the Analysis of Thin Polystyrene Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24987-24992.	1.5	20
46	Transfer hydrogenation over sodium-modified ceria: Enrichment of redox sites active for alcohol dehydrogenation. <i>Journal of Catalysis</i> , 2017, 346, 180-187.	3.1	20
47	Stamped multilayer graphene laminates for disposable in-field electrodes: application to electrochemical sensing of hydrogen peroxide and glucose. <i>Mikrochimica Acta</i> , 2019, 186, 533.	2.5	19
48	Directional Raman scattering spectra of metal-sulfur bonds at smooth gold and silver substrates. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1246-1255.	1.2	19
49	A Photoactivatable BODIPY Probe for Localization-Based Super-Resolution Cellular Imaging. <i>Angewandte Chemie</i> , 2018, 130, 12867-12871.	1.6	17
50	Selective Removal of Ligands from Colloidal Nanocrystal Assemblies with Non-Oxidizing He Plasmas. <i>Chemistry of Materials</i> , 2018, 30, 5961-5967.	3.2	17
51	Laser-induced graphene electrodes for electrochemical ion sensing, pesticide monitoring, and water splitting. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6201-6212.	1.9	16
52	pH dependence of tailing in reversed-phase chromatography of a cationic dye: measurement of the strong adsorption site surface density. <i>Journal of Chromatography A</i> , 2004, 1060, 127-134.	1.8	15
53	Measurement and simulation of tailing zones of a cationic dye in analytical-scale reversed phase chromatography. <i>Journal of Chromatography A</i> , 2004, 1034, 69-75.	1.8	14
54	General in Vivo Assay for the Study of Integrin Cell Membrane Receptor Microclustering. <i>Analytical Chemistry</i> , 2007, 79, 3142-3147.	3.2	14

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55	Germanium-Tin/Cadmium Sulfide Core/Shell Nanocrystals with Enhanced Near-Infrared Photoluminescence. <i>Chemistry of Materials</i> , 2017, 29, 6012-6021.	3.2	14
56	Heterobimetallic Single-Source Precursors: A Springboard to the Synthesis of Binary Intermetallics. <i>ACS Omega</i> , 2019, 4, 5197-5203.	1.6	14
57	Identifying cytoplasmic proteins that affect receptor clustering using fluorescence resonance energy transfer and RNA interference. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2303-2311.	1.9	13
58	Noninvasive Measurements of Integrin Microclustering under Altered Membrane Cholesterol Levels. <i>Biophysical Journal</i> , 2010, 99, 853-861.	0.2	13
59	Characterizing the Solvation Characteristics of Deep Eutectic Solvents Composed of Active Pharmaceutical Ingredients as a Hydrogen Bond Donor and/or Acceptor. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3066-3078.	3.2	13
60	Enhanced metal loading in SBA-15-type catalysts facilitated by salt addition: Synthesis, characterization and catalytic epoxide alcoholysis activity of molybdenum incorporated porous silica. <i>Applied Catalysis A: General</i> , 2014, 475, 469-476.	2.2	12
61	Building Materials from Colloidal Nanocrystal Assemblies: Molecular Control of Solid/Solid Interfaces in Nanostructured Tetragonal ZrO ₂ . <i>Chemistry of Materials</i> , 2017, 29, 7888-7900.	3.2	12
62	Characterizing virus-induced gene silencing at the cellular level with in situ multimodal imaging. <i>Plant Methods</i> , 2018, 14, 37.	1.9	12
63	Diaphanous-1 affects the nanoscale clustering and lateral diffusion of receptor for advanced glycation endproducts (RAGE). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 43-49.	1.4	12
64	The effect of ligand affinity on integrins' lateral diffusion in cultured cells. <i>European Biophysics Journal</i> , 2013, 42, 281-290.	1.2	11
65	Scanning Angle Raman Spectroscopy of Poly(3-hexylthiophene)-Based Films on Indium Tin Oxide, Gold, and Sapphire Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8686-8693.	4.0	11
66	Self-Limiting Processes in the Flame-Based Fabrication of Superhydrophobic Surfaces from Silicones. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29231-29241.	4.0	11
67	Single particle tracking with sterol modulation reveals the cholesterol-mediated diffusion properties of integrin receptors. <i>Physical Biology</i> , 2014, 11, 066001.	0.8	10
68	Photoinduced Trans-to-Cis Phase Transition of Polycrystalline Azobenzene at Low Irradiance Occurs in the Solid State. <i>ChemPhysChem</i> , 2017, 18, 2526-2532.	1.0	10
69	Combined measurement of directional Raman scattering and surface-plasmon-polariton cone from adsorbates on smooth planar gold surfaces. <i>Analyst</i> , 2018, 143, 400-408.	1.7	10
70	Optical Imaging of the Nanoscale Structure and Dynamics of Biological Membranes. <i>Analytical Chemistry</i> , 2019, 91, 425-440.	3.2	10
71	Non-Innocent Role of the Ceria Support in Pd-Catalyzed Halophenol Hydrodehalogenation. <i>ACS Catalysis</i> , 2021, 11, 10553-10564.	5.5	10
72	Unraveling the role of membrane proteins Notch, Pvr, and EGFR in altering integrin diffusion and clustering. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2339-2348.	1.9	9

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73	Scanning angle Raman spectroscopy measurements of thin polymer films for thickness and composition analyses. <i>Vibrational Spectroscopy</i> , 2013, 65, 94-100.	1.2	9
74	Experimental analysis of waveguide-coupled surface-plasmon-polariton cone properties. <i>Analytica Chimica Acta</i> , 2019, 1048, 123-131.	2.6	9
75	The Deep Eutectic Solvent Precipitation Synthesis of Metastable Zn ₄ V ₂ O ₉ . <i>Inorganic Chemistry</i> , 2022, 61, 154-169.	1.9	9
76	Elucidating the role of select cytoplasmic proteins in altering diffusion of integrin receptors. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2327-2337.	1.9	8
77	Self-Immolative Phthalate Esters Sensitive to Hydrogen Peroxide and Light. <i>Journal of Organic Chemistry</i> , 2014, 79, 11740-11743.	1.7	8
78	Ligand binding affinity and changes in the lateral diffusion of receptor for advanced glycation endproducts (RAGE). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 3141-3149.	1.4	8
79	Scanning angle Raman spectroscopy: A nondestructive method for simultaneously determining mixed polymer fractional composition and film thickness. <i>Polymer</i> , 2016, 107, 82-88.	1.8	8
80	Synthesis of germanium nanocrystals from solid-state disproportionation of a chloride-derived germania glass. <i>Chemical Communications</i> , 2019, 55, 6102-6105.	2.2	8
81	The evolution of total internal reflection Raman spectroscopy for the chemical characterization of thin films and interfaces. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6009-6022.	1.9	8
82	Hydrophobic laser-induced graphene potentiometric ion-selective electrodes for nitrate sensing. <i>Mikrochimica Acta</i> , 2022, 189, 122.	2.5	8
83	Application of scanning angle Raman spectroscopy for determining the location of buried polymer interfaces with tens of nanometer precision. <i>Analyst, The</i> , 2015, 140, 1955-1964.	1.7	7
84	Photon Counting Data Analysis: Application of the Maximum Likelihood and Related Methods for the Determination of Lifetimes in Mixtures of Rose Bengal and Rhodamine B. <i>Journal of Physical Chemistry A</i> , 2017, 121, 122-132.	1.1	7
85	Extracting interface locations in multilayer polymer waveguide films using scanning angle Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 262-270.	1.2	7
86	Multi-principal element transition metal dichalcogenides via reactive fusion of 3D-heterostructures. <i>Chemical Communications</i> , 2018, 54, 12574-12577.	2.2	7
87	A Bayesian Approach for Extracting Fluorescence Lifetimes from Sparse Data Sets and Its Significance for Imaging Experiments. <i>Photochemistry and Photobiology</i> , 2019, 95, 773-779.	1.3	7
88	Unprecedented generation of 3D heterostructures by mechanochemical disassembly and re-ordering of incommensurate metal chalcogenides. <i>Nature Communications</i> , 2020, 11, 3005.	5.8	7
89	The Number of Accumulated Photons and the Quality of Stimulated Emission Depletion Lifetime Images. <i>Photochemistry and Photobiology</i> , 2014, 90, 767-772.	1.3	6
90	Coumarin-based Fluorescent Probes for Selectively Targeting and Imaging the Endoplasmic Reticulum in Mammalian Cells. <i>Photochemistry and Photobiology</i> , 2019, 95, 556-562.	1.3	6

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91	Diffusional Dynamics of Tetraalkylphosphonium Ionic Liquid Films Measured by Fluorescence Correlation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 4943-4949.	1.2	6
92	Select cytoplasmic and membrane proteins increase the percentage of immobile integrins but do not affect the average diffusion coefficient of mobile integrins. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 8561-8568.	1.9	5
93	Quantitative Comparison of Organic Photovoltaic Bulk Heterojunction Photostability Under Laser Illumination. <i>Journal of Physical Chemistry C</i> , 2014, 118, 30229-30237.	1.5	5
94	High angular-resolution automated visible-wavelength scanning angle Raman microscopy. <i>Analytica Chimica Acta</i> , 2014, 848, 61-66.	2.6	5
95	Large-Scale Synthesis of Colloidal Si Nanocrystals and Their Helium Plasma Processing into Spin-On, Carbon-Free Nanocrystalline Si Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20740-20747.	4.0	5
96	Fast and non-destructive determination of water content in ionic liquids at varying temperatures by Raman spectroscopy and multivariate regression analysis. <i>Analytica Chimica Acta</i> , 2021, 1188, 339164.	2.6	5
97	Fourier Transform-Plasmon Waveguide Spectroscopy: A Nondestructive Multifrequency Method for Simultaneously Determining Polymer Thickness and Apparent Index of Refraction. <i>Analytical Chemistry</i> , 2014, 86, 11957-11961.	3.2	4
98	On the kinetics of the removal of ligands from films of colloidal nanocrystals by plasmas. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1614-1622.	1.3	4
99	Ternary ACd4P3 (A = Na, K) Nanostructures via a Hydride Solution-Phase Route. <i>ACS Materials Au</i> , 0, , .	2.6	4
100	Temperature-Dependent Constrained Diffusion of Micro-Confined Alkylimidazolium Chloride Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4324-4333.	1.2	4
101	Characterizing Electric Field Exposed P3HT Thin Films Using Polarized Light Spectroscopies. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1801-1809.	1.1	3
102	Lateral diffusion and signaling of receptor for advanced glycation end-products (RAGE): a receptor involved in chronic inflammation. <i>European Biophysics Journal</i> , 2018, 47, 39-48.	1.2	3
103	Spectral Narrowing Accompanies Enhanced Spatial Resolution in Saturated Coherent Anti-Stokes Raman Scattering (CARS): Comparisons of Experiment and Theory. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4305-4313.	1.1	3
104	AC and DC Differential Bridge Structure Suitable for Electrochemical Interfacial Capacitance Biosensing Applications. <i>Biosensors</i> , 2020, 10, 28.	2.3	3
105	Localization of Nonblinking Point Sources Using Higher-Order-Mode Detection and Optical Heterodyning: Developing a Strategy for Extending the Scope of Molecular, Super-resolution Imaging. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3092-3104.	1.2	3
106	Measuring Plant Metabolite Abundance in Spearmint (<i>Mentha spicata</i> L.) with Raman Spectra to Determine Optimal Harvest Time. <i>ACS Food Science & Technology</i> , 2021, 1, 1023-1029.	1.3	3
107	Role of insulin receptor and insulin signaling on β 2PS2 integrins lateral diffusion. <i>European Biophysics Journal</i> , 2014, 43, 603-611.	1.2	2
108	Protein-assisted scalable mechanochemical exfoliation of few-layer biocompatible graphene nanosheets. <i>Royal Society Open Science</i> , 2021, 8, 200911.	1.1	2

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109	The role of a conserved membrane proximal cysteine in altering β -PS2C β PS integrin diffusion. <i>Physical Biology</i> , 2016, 13, 066005.	0.8	1
110	Nanosecond, Time-Resolved Shift of the Photoluminescence Spectra of Organic, Lead-Halide Perovskites Reveals Structural Features Resulting from Excess Organic Ammonium Halide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29964-29971.	1.5	1
111	Synthetic Control of the Photoluminescence Stability of Organolead Halide Perovskites. <i>Journal of the Mexican Chemical Society</i> , 2019, 63, .	0.2	1
112	Scanning Angle Total Internal Reflection Raman Spectroscopy of Thin Polymer Films. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1522, 401.	0.1	0
113	Inorganic Semiconductor Quantum Dots as a Saturated Excitation (SAX) Probe for Sub- μ m Diffraction Imaging. <i>ChemPhotoChem</i> , 2021, 5, 253-259.	1.5	0