## Sophie E Canton

List of Publications by Year in descending order

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		257429	302107
39	2,608 citations	24	39
papers	citations	h-index	g-index
39	39	39	3998
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermally Activated Exciton Dissociation and Recombination Control the Carrier Dynamics in Organometal Halide Perovskite. Journal of Physical Chemistry Letters, 2014, 5, 2189-2194.	4.6	465
2	Towards longer-lived metal-to-ligand charge transfer states of iron(ii) complexes: an N-heterocyclic carbene approach. Chemical Communications, 2013, 49, 6412.	4.1	217
3	Exciton Binding Energy and the Nature of Emissive States in Organometal Halide Perovskites. Journal of Physical Chemistry Letters, 2015, 6, 2969-2975.	4.6	211
4	Ultrafast hot-hole injection modifies hot-electron dynamics in Au/p-GaN heterostructures. Nature Materials, 2020, 19, 1312-1318.	27.5	138
5	Visualizing the non-equilibrium dynamics of photoinduced intramolecular electron transfer with femtosecond X-ray pulses. Nature Communications, 2015, 6, 6359.	12.8	134
6	A Heteroleptic Ferrous Complex with Mesoionic Bis(1,2,3â€triazolâ€5â€ylidene) Ligands: Taming the MLCT Excited State of Iron(II). Chemistry - A European Journal, 2015, 21, 3628-3639.	3.3	132
7	Photostability and Photodegradation Processes in Colloidal CsPbl <sub>3</sub> Perovskite Quantum Dots. ACS Applied Materials & Samp; Interfaces, 2018, 10, 39222-39227.	8.0	116
8	Guest–Host Interactions Investigated by Time-Resolved X-ray Spectroscopies and Scattering at MHz Rates: Solvation Dynamics and Photoinduced Spin Transition in Aqueous Fe(bipy) <sub>3</sub> <sup>2+</sup> . Journal of Physical Chemistry A, 2012, 116, 9878-9887.	2.5	112
9	Finding intersections between electronic excited state potential energy surfaces with simultaneous ultrafast X-ray scattering and spectroscopy. Chemical Science, 2019, 10, 5749-5760.	7.4	90
10	Spin-state studies with XES and RIXS: From static to ultrafast. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 166-171.	1.7	87
11	Solvated < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < mml:mrow> < mml:mo stretchy="false"> [ < mml:mi> Co < mml:mi> < mml:mo stretchy="false"> ( < mml:mtext) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 332 Td (mathvariant="bottom:") to the control of the contro	old <sup>8</sup> >terpy	86 
12	Observing Solvation Dynamics with Simultaneous Femtosecond X-ray Emission Spectroscopy and X-ray Scattering. Journal of Physical Chemistry B, 2016, 120, 1158-1168.	2.6	85
13	Vibrational wavepacket dynamics in Fe carbene photosensitizer determined with femtosecond X-ray emission and scattering. Nature Communications, 2020, 11, 634.	12.8	75
14	Solvent control of charge transfer excited state relaxation pathways in [Fe(2,2′-bipyridine)(CN) <sub>4</sub> ] <sup>2â^²</sup> . Physical Chemistry Chemical Physics, 2018, 20, 4238-4249.	2.8	52
15	Toward Highlighting the Ultrafast Electron Transfer Dynamics at the Optically Dark Sites of Photocatalysts. Journal of Physical Chemistry Letters, 2013, 4, 1972-1976.	4.6	49
16	Direct Experimental Evidence for Photoinduced Strong-Coupling Polarons in Organolead Halide Perovskite Nanoparticles. Journal of Physical Chemistry Letters, 2016, 7, 4535-4539.	4.6	49
17	Ultrafast charge transfer dynamics in 2D covalent organic frameworks/Re-complex hybrid photocatalyst. Nature Communications, 2022, 13, 845.	12.8	46
18	Probing the Anisotropic Distortion of Photoexcited Spin Crossover Complexes with Picosecond X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 4536-4545.	3.1	44

#	Article	lF	CITATIONS
19	Highly Accurate Excited-State Structure of [Os(bpy) <sub>2</sub> dcbpy] <sup>2+</sup> Determined by X-ray Transient Absorption Spectroscopy. Journal of the American Chemical Society, 2014, 136, 8804-8809.	13.7	44
20	Hot Branching Dynamics in a Lightâ€Harvesting Iron Carbene Complex Revealed by Ultrafast Xâ€ray Emission Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 364-372.	13.8	41
21	Asynchronous Photoexcited Electronic and Structural Relaxation in Lead-Free Perovskites. Journal of the American Chemical Society, 2019, 141, 13074-13080.	13.7	39
22	Correlating structure and electronic band-edge properties in organolead halide perovskites nanoparticles. Physical Chemistry Chemical Physics, 2016, 18, 14933-14940.	2.8	32
23	Dynamic Jahn–Teller Effect in the Metastable High-Spin State of Solvated [Fe(terpy) <sub>2</sub> ] <sup>2+</sup> . Journal of Physical Chemistry C, 2015, 119, 3312-3321.	3.1	29
24	Free Carriers versus Self-Trapped Excitons at Different Facets of Ruddlesden–Popper Two-Dimensional Lead Halide Perovskite Single Crystals. Journal of Physical Chemistry Letters, 2021, 12, 4965-4971.	4.6	27
25	Mapping the Ultrafast Changes of Continuous Shape Measures in Photoexcited Spin Crossover Complexes without Long-Range Order. Journal of Physical Chemistry C, 2015, 119, 3322-3330.	3.1	23
26	Modulating Charge-Carrier Dynamics in Mn-Doped All-Inorganic Halide Perovskite Quantum Dots through the Doping-Induced Deep Trap States. Journal of Physical Chemistry Letters, 2020, 11, 3705-3711.	4.6	22
27	Probing the Impact of Solvation on Photoexcited Spin Crossover Complexes with High-Precision X-ray Transient Absorption Spectroscopy. Journal of the American Chemical Society, 2017, 139, 17518-17524.	13.7	21
28	Electronic Structure and Trap States of Two-Dimensional Ruddlesden–Popper Perovskites with the Relaxed Goldschmidt Tolerance Factor. ACS Applied Electronic Materials, 2020, 2, 1402-1412.	4.3	19
29	Single-component surface in binary self-assembled NaK nanoalloy clusters. Physical Review B, 2009, 80,	3.2	17
30	Visualizing the coordination-spheres of photoexcited transition metal complexes with ultrafast hard X-rays. Physical Chemistry Chemical Physics, 2019, 21, 9277-9284.	2.8	16
31	Visualizing Light-Induced Microstrain and Phase Transition in Lead-Free Perovskites Using Time-Resolved X-Ray Diffraction. Journal of the American Chemical Society, 2022, 144, 5335-5341.	13.7	15
32	Hot Branching Dynamics in a Lightâ€Harvesting Iron Carbene Complex Revealed by Ultrafast Xâ€ray Emission Spectroscopy. Angewandte Chemie, 2020, 132, 372-380.	2.0	14
33	Revealing Hot and Long-Lived Metastable Spin States in the Photoinduced Switching of Solvated Metallogrid Complexes with Femtosecond Optical and X-ray Spectroscopies. Journal of Physical Chemistry Letters, 2020, 11, 2133-2141.	4.6	11
34	Optimizing the quasi-equilibrium state of hot carriers in all-inorganic lead halide perovskite nanocrystals through Mn doping: fundamental dynamics and device perspectives. Chemical Science, 2022, 13, 1734-1745.	7.4	11
35	Watching the dynamics of electrons and atoms at work in solar energy conversion. Faraday Discussions, 2015, 185, 51-68.	3.2	10
36	Exploring the light-induced dynamics in solvated metallogrid complexes with femtosecond pulses across the electromagnetic spectrum. Journal of Chemical Physics, 2020, 152, 214301.	3.0	10

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#	Article	IF	CITATIONS
37	Metal-like heat conduction in laser-excited InSb probed by picosecond time-resolved x-ray diffraction. Physical Review B, 2008, 78, .	3.2	9
38	Resolving the Ultrafast Changes of Chemically Inequivalent Metal–Ligand Bonds in Photoexcited Molecular Complexes with Transient X-ray Absorption Spectroscopy. ACS Omega, 2019, 4, 6375-6381.	3.5	6
39	The valence band of free K clusters studied by photoelectron and Auger spectroscopies. European Physical Journal D, 2008, 50, 165-169.	1.3	4