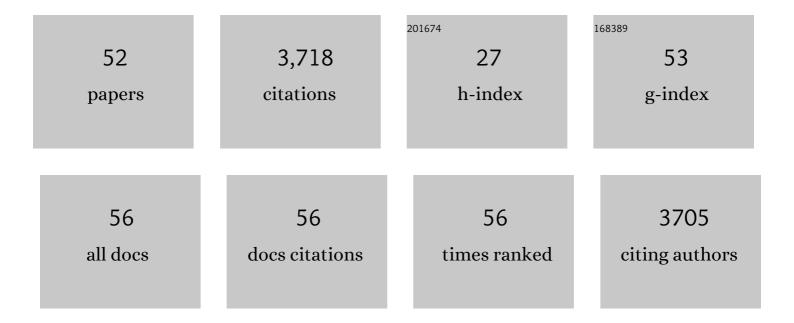
Sean T Roberts

List of Publications by Year in descending order

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SEAN T POREDTS

#	Article	IF	CITATIONS
1	Hydrogen bonds in liquid water are broken only fleetingly. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13019-13022.	7.1	465
2	Local hydrogen bonding dynamics and collective reorganization in water: Ultrafast infrared spectroscopy of HOD/D2O. Journal of Chemical Physics, 2005, 122, 054506.	3.0	295
3	Efficient Singlet Fission Discovered in a Disordered Acene Film. Journal of the American Chemical Society, 2012, 134, 6388-6400.	13.7	275
4	Characterization of spectral diffusion from two-dimensional line shapes. Journal of Chemical Physics, 2006, 125, 084502.	3.0	270
5	Multidimensional infrared spectroscopy of water. I. Vibrational dynamics in two-dimensional IR line shapes. Journal of Chemical Physics, 2006, 125, 194521.	3.0	180
6	Structural Rearrangements in Water Viewed Through Two-Dimensional Infrared Spectroscopy. Accounts of Chemical Research, 2009, 42, 1239-1249.	15.6	177
7	Multidimensional infrared spectroscopy of water. II. Hydrogen bond switching dynamics. Journal of Chemical Physics, 2006, 125, 194522.	3.0	175
8	Singlet Fission Involves an Interplay between Energetic Driving Force and Electronic Coupling in Perylenediimide Films. Journal of the American Chemical Society, 2018, 140, 814-826.	13.7	167
9	Are water simulation models consistent with steady-state and ultrafast vibrational spectroscopy experiments?. Chemical Physics, 2007, 341, 143-157.	1.9	150
10	Singlet and Triplet Excitation Management in a Bichromophoric Near-Infrared-Phosphorescent BODIPY-Benzoporphyrin Platinum Complex. Journal of the American Chemical Society, 2011, 133, 88-96.	13.7	147
11	Symmetry-breaking intramolecular charge transfer in the excited state of meso-linked BODIPY dyads. Chemical Communications, 2012, 48, 284-286.	4.1	137
12	Observation of a Zundel-like transition state during proton transfer in aqueous hydroxide solutions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15154-15159.	7.1	111
13	Slow Singlet Fission Observed in a Polycrystalline Perylenediimide Thin Film. Journal of Physical Chemistry Letters, 2016, 7, 4922-4928.	4.6	95
14	Hydrogen Bond Rearrangements in Water Probed with Temperature-Dependent 2D IR. Journal of Physical Chemistry Letters, 2010, 1, 1068-1072.	4.6	89
15	Surface States Mediate Triplet Energy Transfer in Nanocrystal–Acene Composite Systems. Journal of the American Chemical Society, 2018, 140, 7543-7553.	13.7	88
16	Achieving spin-triplet exciton transfer between silicon and molecular acceptors for photon upconversion. Nature Chemistry, 2020, 12, 137-144.	13.6	85
17	Ultrafast 2D IR anisotropy of water reveals reorientation during hydrogen-bond switching. Journal of Chemical Physics, 2011, 135, 054509.	3.0	72
18	Variation of the transition dipole moment across the OH stretching band of water. Chemical Physics, 2007, 341, 218-229.	1.9	70

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19	Fused Porphyrin–Single-Walled Carbon Nanotube Hybrids: Efficient Formation and Photophysical Characterization. ACS Nano, 2013, 7, 3466-3475.	14.6	67
20	Aqueous Colloidal Acene Nanoparticles: A New Platform for Studying Singlet Fission. Journal of Physical Chemistry B, 2013, 117, 15519-15526.	2.6	47
21	Proton Transfer in Concentrated Aqueous Hydroxide Visualized Using Ultrafast Infrared Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 3957-3972.	2.5	45
22	Catalyst Halogenation Enables Rapid and Efficient Polymerizations with Visible to Far-Red Light. Journal of the American Chemical Society, 2020, 142, 14733-14742.	13.7	44
23	Annealing-Induced Changes in the Molecular Orientation of Poly-3-hexylthiophene at Buried Interfaces. Journal of Physical Chemistry C, 2013, 117, 15213-15220.	3.1	43
24	Observation of Triplet Exciton Formation in a Platinum-Sensitized Organic Photovoltaic Device. Journal of Physical Chemistry Letters, 2011, 2, 48-54.	4.6	41
25	Ultrafast Nâ^H Vibrational Dynamics of Cyclic Doubly Hydrogen-Bonded Homo- and Heterodimers. Journal of Physical Chemistry B, 2008, 112, 13167-13171.	2.6	36
26	Helical Rod-like Phenylene Cages via Ruthenium Catalyzed Diol-Diene Benzannulation: A Cord of Three Strands. Journal of the American Chemical Society, 2018, 140, 2455-2459.	13.7	30
27	Exciton-Delocalizing Ligands Can Speed Up Energy Migration in Nanocrystal Solids. Nano Letters, 2018, 18, 3259-3270.	9.1	29
28	Using Heterodyne-Detected Electronic Sum Frequency Generation To Probe the Electronic Structure of Buried Interfaces. Journal of Physical Chemistry C, 2017, 121, 18653-18664.	3.1	24
29	A fast-scanning Fourier transform 2D IR interferometer. Optics Communications, 2011, 284, 1062-1066.	2.1	21
30	Can Exciton-Delocalizing Ligands Facilitate Hot Hole Transfer from Semiconductor Nanocrystals?. Journal of Physical Chemistry C, 2016, 120, 28224-28234.	3.1	20
31	Extracting the Density of States of Copper Phthalocyanine at the SiO ₂ Interface with Electronic Sum Frequency Generation. Journal of Physical Chemistry Letters, 2016, 7, 1060-1066.	4.6	20
32	Charge carrier concentration dependence of ultrafast plasmonic relaxation in conducting metal oxide nanocrystals. Journal of Materials Chemistry C, 2017, 5, 5757-5763.	5.5	20
33	Bidirectional triplet exciton transfer between silicon nanocrystals and perylene. Chemical Science, 2021, 12, 6737-6746.	7.4	19
34	Controlling Symmetry Breaking Charge Transfer in BODIPY Pairs. Accounts of Chemical Research, 2022, 55, 1561-1572.	15.6	19
35	Using Electronic Sum-Frequency Generation to Analyze the Interfacial Structure of Singlet Fission-Capable Perylenediimide Thin Films. Journal of Physical Chemistry C, 2020, 124, 11401-11413.	3.1	17
36	Modulation of the Visible Absorption and Reflection Profiles of ITO Nanocrystal Thin Films by Plasmon Excitation. ACS Photonics, 2020, 7, 1188-1196.	6.6	16

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37	Alternating oligo(<i>o</i> , <i>p</i> -phenylenes) <i>via</i> ruthenium catalyzed diol–diene benzannulation: orthogonality to cross-coupling enables <i>de novo</i> nanographene and PAH construction. Chemical Science, 2018, 9, 7866-7873.	7.4	14
38	Local and Collective Reaction Coordinates in the Transport of the Aqueous Hydroxide Ion. Journal of Physical Chemistry B, 2014, 118, 8062-8069.	2.6	12
39	Moisture-Driven Formation and Growth of Quasi-2-D Organolead Halide Perovskite Crystallites. ACS Applied Energy Materials, 2020, 3, 6280-6290.	5.1	11
40	Singlet to triplet and back again. Nature Chemistry, 2015, 7, 764-765.	13.6	9
41	Sensitivity of sum frequency generation experimental conditions to thin film interference effects. Journal of Chemical Physics, 2021, 154, 114704.	3.0	8
42	Ligand-Enhanced Energy Transport in Nanocrystal Solids Viewed with Two-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 5602-5608.	4.6	7
43	CdSe nanocrystal sensitized photon upconverting film. RSC Advances, 2021, 11, 31042-31046.	3.6	7
44	Photon quenching in InGaN quantum well light emitting devices. Applied Physics Letters, 2013, 103, 041123.	3.3	6
45	Quantifying Charge Recombination in Solar Cells Based on Donor–Acceptor P3HT Analogues. Journal of Physical Chemistry C, 2014, 118, 6650-6660.	3.1	6
46	Defects Cause Subgap Luminescence from a Crystalline Tetracene Derivative. Journal of Physical Chemistry Letters, 2017, 8, 5993-6001.	4.6	6
47	Triple Helical Ir(ppy) 3 Phenylene Cage Prepared by Diolâ€Mediated Benzannulation: Synthesis, Resolution, Absolute Stereochemistry and Photophysical Properties. Chemistry - A European Journal, 2019, 25, 8719-8724.	3.3	6
48	Benzannulation through Ruthenium(0) atalyzed Transfer Hydrogenative Cycloaddition: Precision Synthesis and Photophysical Characterization of Soluble Diindenoperylenes. Chemistry - A European Journal, 2020, 26, 7504-7510.	3.3	4
49	Using Spectator Ligands to Enhance Nanocrystal-to-Molecule Electron Transfer. Journal of Physical Chemistry Letters, 2022, , 1416-1423.	4.6	4
50	Low temperature radical initiated hydrosilylation of silicon quantum dots. Faraday Discussions, 2020, 222, 190-200.	3.2	3
51	The Length of Molecular Tethers Can Be Used to Control the Structure and Electronic Properties of Stapled Supramolecular Polymers. Chemistry of Materials, 2022, 34, 6518-6528.	6.7	3
52	The Dynamics of Aqueous Hydroxide Ion Transport Probed via Ultrafast Vibrational Echo Experiments. Springer Series in Chemical Physics, 2009, , 481-483.	0.2	1