

# Sean T Roberts

## List of Publications by Year in descending order

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52  
papers

3,718  
citations

201674

27  
h-index

168389

53  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3705  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Spectator Ligands to Enhance Nanocrystal-to-Molecule Electron Transfer. <i>Journal of Physical Chemistry Letters</i> , 2022, , 1416-1423.	4.6	4
2	Controlling Symmetry Breaking Charge Transfer in BODIPY Pairs. <i>Accounts of Chemical Research</i> , 2022, 55, 1561-1572.	15.6	19
3	The Length of Molecular Tethers Can Be Used to Control the Structure and Electronic Properties of Stapled Supramolecular Polymers. <i>Chemistry of Materials</i> , 2022, 34, 6518-6528.	6.7	3
4	CdSe nanocrystal sensitized photon upconverting film. <i>RSC Advances</i> , 2021, 11, 31042-31046.	3.6	7
5	Sensitivity of sum frequency generation experimental conditions to thin film interference effects. <i>Journal of Chemical Physics</i> , 2021, 154, 114704.	3.0	8
6	Bidirectional triplet exciton transfer between silicon nanocrystals and perylene. <i>Chemical Science</i> , 2021, 12, 6737-6746.	7.4	19
7	Achieving spin-triplet exciton transfer between silicon and molecular acceptors for photon upconversion. <i>Nature Chemistry</i> , 2020, 12, 137-144.	13.6	85
8	Catalyst Halogenation Enables Rapid and Efficient Polymerizations with Visible to Far-Red Light. <i>Journal of the American Chemical Society</i> , 2020, 142, 14733-14742.	13.7	44
9	Moisture-Driven Formation and Growth of Quasi-2-D Organolead Halide Perovskite Crystallites. <i>ACS Applied Energy Materials</i> , 2020, 3, 6280-6290.	5.1	11
10	Using Electronic Sum-Frequency Generation to Analyze the Interfacial Structure of Singlet Fission-Capable Perylenediimide Thin Films. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11401-11413.	3.1	17
11	Modulation of the Visible Absorption and Reflection Profiles of ITO Nanocrystal Thin Films by Plasmon Excitation. <i>ACS Photonics</i> , 2020, 7, 1188-1196.	6.6	16
12	Low temperature radical initiated hydrosilylation of silicon quantum dots. <i>Faraday Discussions</i> , 2020, 222, 190-200.	3.2	3
13	Benzannulation through Ruthenium(0)-Catalyzed Transfer Hydrogenative Cycloaddition: Precision Synthesis and Photophysical Characterization of Soluble Diindenoperlylenes. <i>Chemistry - A European Journal</i> , 2020, 26, 7504-7510.	3.3	4
14	Ligand-Enhanced Energy Transport in Nanocrystal Solids Viewed with Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5602-5608.	4.6	7
15	Triple Helical Ir(ppy) <sub>3</sub> Phenylene Cage Prepared by Diol-Mediated Benzannulation: Synthesis, Resolution, Absolute Stereochemistry and Photophysical Properties. <i>Chemistry - A European Journal</i> , 2019, 25, 8719-8724.	3.3	6
16	Exciton-Delocalizing Ligands Can Speed Up Energy Migration in Nanocrystal Solids. <i>Nano Letters</i> , 2018, 18, 3259-3270.	9.1	29
17	Helical Rod-like Phenylene Cages via Ruthenium Catalyzed Diol-Diene Benzannulation: A Cord of Three Strands. <i>Journal of the American Chemical Society</i> , 2018, 140, 2455-2459.	13.7	30
18	Singlet Fission Involves an Interplay between Energetic Driving Force and Electronic Coupling in Perylenediimide Films. <i>Journal of the American Chemical Society</i> , 2018, 140, 814-826.	13.7	167

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19	Alternating oligo(o,p-phenylenes) via ruthenium catalyzed diol-diene benzannulation: orthogonality to cross-coupling enables de novo nanographene and PAH construction. <i>Chemical Science</i> , 2018, 9, 7866-7873.	7.4	14
20	Surface States Mediate Triplet Energy Transfer in Nanocrystal-Acene Composite Systems. <i>Journal of the American Chemical Society</i> , 2018, 140, 7543-7553.	13.7	88
21	Charge carrier concentration dependence of ultrafast plasmonic relaxation in conducting metal oxide nanocrystals. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5757-5763.	5.5	20
22	Using Heterodyne-Detected Electronic Sum Frequency Generation To Probe the Electronic Structure of Buried Interfaces. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18653-18664.	3.1	24
23	Defects Cause Subgap Luminescence from a Crystalline Tetracene Derivative. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5993-6001.	4.6	6
24	Can Exciton-Delocalizing Ligands Facilitate Hot Hole Transfer from Semiconductor Nanocrystals?. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28224-28234.	3.1	20
25	Slow Singlet Fission Observed in a Polycrystalline Perylenediimide Thin Film. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4922-4928.	4.6	95
26	Extracting the Density of States of Copper Phthalocyanine at the SiO <sub>2</sub> Interface with Electronic Sum Frequency Generation. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1060-1066.	4.6	20
27	Singlet to triplet and back again. <i>Nature Chemistry</i> , 2015, 7, 764-765.	13.6	9
28	Quantifying Charge Recombination in Solar Cells Based on Donor-Acceptor P3HT Analogues. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6650-6660.	3.1	6
29	Local and Collective Reaction Coordinates in the Transport of the Aqueous Hydroxide Ion. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8062-8069.	2.6	12
30	Photon quenching in InGaN quantum well light emitting devices. <i>Applied Physics Letters</i> , 2013, 103, 041123.	3.3	6
31	Fused Porphyrin-Single-Walled Carbon Nanotube Hybrids: Efficient Formation and Photophysical Characterization. <i>ACS Nano</i> , 2013, 7, 3466-3475.	14.6	67
32	Annealing-Induced Changes in the Molecular Orientation of Poly-3-hexylthiophene at Buried Interfaces. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15213-15220.	3.1	43
33	Aqueous Colloidal Acene Nanoparticles: A New Platform for Studying Singlet Fission. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15519-15526.	2.6	47
34	Symmetry-breaking intramolecular charge transfer in the excited state of meso-linked BODIPY dyads. <i>Chemical Communications</i> , 2012, 48, 284-286.	4.1	137
35	Efficient Singlet Fission Discovered in a Disordered Acene Film. <i>Journal of the American Chemical Society</i> , 2012, 134, 6388-6400.	13.7	275
36	Singlet and Triplet Excitation Management in a Bichromophoric Near-Infrared-Phosphorescent BODIPY-Benzoporphyrin Platinum Complex. <i>Journal of the American Chemical Society</i> , 2011, 133, 88-96.	13.7	147

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37	Proton Transfer in Concentrated Aqueous Hydroxide Visualized Using Ultrafast Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3957-3972.	2.5	45
38	Observation of Triplet Exciton Formation in a Platinum-Sensitized Organic Photovoltaic Device. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 48-54.	4.6	41
39	A fast-scanning Fourier transform 2D IR interferometer. <i>Optics Communications</i> , 2011, 284, 1062-1066.	2.1	21
40	Ultrafast 2D IR anisotropy of water reveals reorientation during hydrogen-bond switching. <i>Journal of Chemical Physics</i> , 2011, 135, 054509.	3.0	72
41	Hydrogen Bond Rearrangements in Water Probed with Temperature-Dependent 2D IR. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1068-1072.	4.6	89
42	Observation of a Zundel-like transition state during proton transfer in aqueous hydroxide solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15154-15159.	7.1	111
43	Structural Rearrangements in Water Viewed Through Two-Dimensional Infrared Spectroscopy. <i>Accounts of Chemical Research</i> , 2009, 42, 1239-1249.	15.6	177
44	The Dynamics of Aqueous Hydroxide Ion Transport Probed via Ultrafast Vibrational Echo Experiments. <i>Springer Series in Chemical Physics</i> , 2009, , 481-483.	0.2	1
45	Ultrafast N-H Vibrational Dynamics of Cyclic Doubly Hydrogen-Bonded Homo- and Heterodimers. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13167-13171.	2.6	36
46	Are water simulation models consistent with steady-state and ultrafast vibrational spectroscopy experiments?. <i>Chemical Physics</i> , 2007, 341, 143-157.	1.9	150
47	Variation of the transition dipole moment across the OH stretching band of water. <i>Chemical Physics</i> , 2007, 341, 218-229.	1.9	70
48	Characterization of spectral diffusion from two-dimensional line shapes. <i>Journal of Chemical Physics</i> , 2006, 125, 084502.	3.0	270
49	Multidimensional infrared spectroscopy of water. I. Vibrational dynamics in two-dimensional IR line shapes. <i>Journal of Chemical Physics</i> , 2006, 125, 194521.	3.0	180
50	Multidimensional infrared spectroscopy of water. II. Hydrogen bond switching dynamics. <i>Journal of Chemical Physics</i> , 2006, 125, 194522.	3.0	175
51	Hydrogen bonds in liquid water are broken only fleetingly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13019-13022.	7.1	465
52	Local hydrogen bonding dynamics and collective reorganization in water: Ultrafast infrared spectroscopy of HOD/D <sub>2</sub> O. <i>Journal of Chemical Physics</i> , 2005, 122, 054506.	3.0	295