

# Milan Sykora

## List of Publications by Year in descending order

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55  
papers

4,392  
citations

126907

33  
h-index

155660

55  
g-index

55  
all docs

55  
docs citations

55  
times ranked

5853  
citing authors

#	ARTICLE	IF	CITATIONS
1	PbS/CdS Quantum Dot Room-Temperature Single-Emitter Spectroscopy Reaches the Telecom O and S Bands via an Engineered Stability. <i>ACS Nano</i> , 2021, 15, 575-587.	14.6	22
2	Raman spectroscopy of bottom-up synthesized graphene quantum dots: size and structure dependence. <i>Nanoscale</i> , 2019, 11, 16571-16581.	5.6	176
3	Role of Interface Chemistry in Opening New Radiative Pathways in InP/CdSe Giant Quantum Dots with Blinking-Suppressed Two-Color Emission. <i>Advanced Functional Materials</i> , 2019, 29, 1809111.	14.9	13
4	Size-Dependent Electronic Properties of Uniform Ensembles of Strongly Confined Graphene Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 953-959.	4.6	47
5	Elucidating the Role of the Metal Linking Ion on the Excited State Dynamics of Self-Assembled Bilayers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9835-9842.	3.1	13
6	High-Temperature Refractory Metasurfaces for Solar Thermophotovoltaic Energy Harvesting. <i>Nano Letters</i> , 2018, 18, 7665-7673.	9.1	140
7	Using shape to turn off blinking for two-colour multiexciton emission in CdSe/CdS tetrapods. <i>Nature Communications</i> , 2017, 8, 15083.	12.8	37
8	Intragranular Phase Proton Conduction in Crystalline $\text{Sn}_{1-x}\text{In}_x\text{P}_{2-x}\text{O}_7$ ( $x = 0$ and $0.1$ ). <i>Journal of Physical Chemistry C</i> , 2017, 121, 23896-23905.	3.1	15
9	Giant PbSe/CdSe/CdSe Quantum Dots: Crystal-Structure-Defined Ultrastable Near-Infrared Photoluminescence from Single Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 11081-11088.	13.7	48
10	Elucidating the Energy- and Electron-Transfer Dynamics of Photon Upconversion in Self-Assembled Bilayers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19690-19698.	3.1	31
11	Metasurface Broadband Solar Absorber. <i>Scientific Reports</i> , 2016, 6, 20347.	3.3	220
12	Thermal stability of a eutectic mixture of bis(2,2-dinitropropyl) acetal and formal: Part B. Degradation mechanisms under water and high humidity environments. <i>Polymer Degradation and Stability</i> , 2016, 130, 338-347.	5.8	21
13	Electrochromic Graphene Molecules. <i>ACS Nano</i> , 2015, 9, 4043-4049.	14.6	22
14	Layer-by-Layer Fabrication of Nanowire Sensitized Solar Cells: Geometry-Independent Integration. <i>Advanced Functional Materials</i> , 2014, 24, 6843-6852.	14.9	1
15	In Situ Synthesis of Graphene Molecules on $\text{TiO}_2$ : Application in Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 20473-20478.	8.0	16
16	Role of Solvent-Oxygen Ion Pairs in Photooxidation of CdSe Nanocrystal Quantum Dots. <i>ACS Nano</i> , 2012, 6, 2371-2377.	14.6	33
17	Formation of Assemblies Comprising Ru-Polypyridine Complexes and CdSe Nanocrystals Studied by ATR-FTIR Spectroscopy and DFT Modeling. <i>Langmuir</i> , 2011, 27, 8377-8383.	3.5	42
18	Two types of luminescence blinking revealed by spectroelectrochemistry of single quantum dots. <i>Nature</i> , 2011, 479, 203-207.	27.8	659

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19	Effect of organic passivation on photoinduced electron transfer across the quantum dot/TiO <sub>2</sub> interface. <i>Chemical Communications</i> , 2011, 47, 6437.	4.1	10
20	Electronic Properties and Structure of Assemblies of CdSe Nanocrystal Quantum Dots and Ru <sup>II</sup> -Polypyridine Complexes Probed by Steady State and Time-Resolved Photoluminescence. <i>Advanced Functional Materials</i> , 2011, 21, 3159-3168.	14.9	26
21	The Frenkel exciton Hamiltonian for functionalized Ru(II)-bpy complexes. <i>Journal of Luminescence</i> , 2011, 131, 1739-1746.	3.1	12
22	Effect of Air Exposure on Surface Properties, Electronic Structure, and Carrier Relaxation in PbSe Nanocrystals. <i>ACS Nano</i> , 2010, 4, 2021-2034.	14.6	230
23	Apparent Versus True Carrier Multiplication Yields in Semiconductor Nanocrystals. <i>Nano Letters</i> , 2010, 10, 2049-2057.	9.1	214
24	Spectroscopic Signatures of Photocharging due to Hot-Carrier Transfer in Solutions of Semiconductor Nanocrystals under Low-Intensity Ultraviolet Excitation. <i>ACS Nano</i> , 2010, 4, 6087-6097.	14.6	87
25	CdSe Quantum-Dot-Sensitized Solar Cell with ~100% Internal Quantum Efficiency. <i>ACS Nano</i> , 2010, 4, 6377-6386.	14.6	110
26	Effect of deprotonation on absorption and emission spectra of Ru(II)-bpy complexes functionalized with carboxyl groups. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 8902.	2.8	56
27	Hybrid Photovoltaics Based on Semiconductor Nanocrystals and Amorphous Silicon. <i>Nano Letters</i> , 2009, 9, 1235-1241.	9.1	81
28	Size-Dependent Intrinsic Radiative Decay Rates of Silicon Nanocrystals at Large Confinement Energies. <i>Physical Review Letters</i> , 2008, 100, 067401.	7.8	147
29	High-Efficiency Carrier Multiplication and Ultrafast Charge Separation in Semiconductor Nanocrystals Studied via Time-Resolved Photoluminescence. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25332-25338.	2.6	184
30	Photoinduced Charge Transfer between CdSe Nanocrystal Quantum Dots and Ru <sup>II</sup> -Polypyridine Complexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 9984-9985.	13.7	208
31	Seven Excitons at a Cost of One: Redefining the Limits for Conversion Efficiency of Photons into Charge Carriers. <i>Nano Letters</i> , 2006, 6, 424-429.	9.1	464
32	Spectrally resolved energy transfer using quantum dot donors: Ensemble and single-molecule photoluminescence studies. <i>Physical Review B</i> , 2006, 73, .	3.2	60
33	Electropolymerization of Vinylbipyridine Complexes of Ruthenium(II) and Osmium(II) in SiO <sub>2</sub> Sol-Gel Films. <i>Inorganic Chemistry</i> , 2005, 44, 3396-3404.	4.0	14
34	Effect of Surface Immobilization on Intramolecular and Intermolecular Electron Transfer in a Chromophore-Donor-Acceptor Assembly. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1499-1504.	2.6	5
35	Evidence for Through-Space Electron Transfer in the Distance Dependence of Normal and Inverted Electron Transfer in Oligoproline Arrays. <i>Journal of the American Chemical Society</i> , 2004, 126, 14506-14514.	13.7	59
36	Molecular Energy Transfer across Oxide Surfaces. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8895-8904.	2.6	32

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37	Hydrogen-Bonding Interactions in the Active Sites of Cytochrome P450cam and Its Site-Directed Mutants. <i>Journal of the American Chemical Society</i> , 2001, 123, 269-278.	13.7	44
38	Mimicking the antenna-electron transfer properties of photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 7687-7691.	7.1	80
39	One-Pot Synthesis and Characterization of a Chromophore <sup>+</sup> Donor <sup>+</sup> Acceptor Assembly. <i>Inorganic Chemistry</i> , 2000, 39, 71-75.	4.0	48
40	Photoinduced Electron Transfer in an Oligodeoxynucleotide Duplex: Observation of the Electron-Transfer Intermediate. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7574-7576.	2.6	36
41	Automated Solid-Phase Synthesis and Photophysical Properties of Oligodeoxynucleotides Labeled at 5'-Aminothymidine with Ru(bpy) <sub>2</sub> (4-methyl-2-pyridyl) <sub>2</sub> <sup>+</sup> . <i>Inorganic Chemistry</i> , 2000, 39, 2500-2504.	4.0	26
42	Automated Solid-Phase DNA Synthesis and Photophysical Properties of Oligonucleotides Labeled at the 5'-Terminus with Ru(bpy) <sub>2</sub> <sup>+</sup> . <i>Inorganic Chemistry</i> , 1999, 38, 3922-3925.	4.0	31
43	On the Nature and Extent of Intermolecular Interactions between Entrapped Complexes of Ru(bpy) <sub>2</sub> <sup>+</sup> in Zeolite Y. <i>Journal of Physical Chemistry B</i> , 1999, 103, 309-320.	2.6	57
44	Multiphoton, Multielectron Transfer Photochemistry in a Soluble Polymer. <i>Inorganic Chemistry</i> , 1999, 38, 2705-2708.	4.0	25
45	Sensitization of TiO <sub>2</sub> by Phosphonate-Derivatized Proline Assemblies. <i>Inorganic Chemistry</i> , 1999, 38, 3665-3669.	4.0	76
46	SiO <sub>2</sub> Sol-Gel Composite Films Containing Redox-Active, Polypyridyl Ruthenium Polymers. <i>Inorganic Chemistry</i> , 1999, 38, 3596-3597.	4.0	17
47	Synthesis and Excited-State Properties of a Novel Ruthenium Nucleoside: 5-[Ru(bpy) <sub>2</sub> (4-methyl-2-pyridyl)] <sub>2</sub> <sup>+</sup> -2'-deoxyuridine. <i>Inorganic Chemistry</i> , 1999, 38, 2411-2415.	4.0	38
48	Electrogenerated Chemiluminescence in SiO <sub>2</sub> Sol-Gel Polymer Composites. <i>Chemistry of Materials</i> , 1999, 11, 1186-1189.	6.7	60
49	Solid-Phase Synthesis and Photophysical Properties of DNA Labeled at the Nucleobase with Ru(bpy) <sub>2</sub> (4-methyl-2-pyridyl) <sub>2</sub> <sup>+</sup> . <i>Inorganic Chemistry</i> , 1999, 38, 5999-6002.	4.0	34
50	A Synthetic Strategy for the Construction of Zeolite-Entrapped Organized Molecular Assemblies. Preparation and Photophysical Characterization of Interacting Adjacent Cage Dyads Comprised of Two Polypyridine Complexes of Ru(II). <i>Journal of the American Chemical Society</i> , 1998, 120, 3490-3498.	13.7	43
51	Photochemical energy storage in a spatially organized zeolite-based photoredox system. <i>Nature</i> , 1997, 387, 162-164.	27.8	113
52	Resonance Raman and time-resolved resonance Raman studies of complexes of divalent ruthenium with bipyridine and 4,4'-bipyrimidine ligands. <i>Journal of Raman Spectroscopy</i> , 1997, 28, 933-938.	2.5	19
53	Resonance Raman Investigation of Cyanide Ligated Beef Liver and <i>Aspergillus niger</i> Catalases. <i>Journal of Biological Chemistry</i> , 1995, 270, 10449-10460.	3.4	21
54	Synthetic Manipulation of Excited State Decay Pathways in a Series of Ruthenium(II) Complexes Containing Bipyrazine and Substituted Bipyridine Ligands. <i>Inorganic Chemistry</i> , 1995, 34, 5852-5856.	4.0	65

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55	Vibrational spectra of aquadioxotetra; peroxodivanadates(V) $M_2[V_2O_2(O_2)_4(H_2O)] \cdot xH_2O$ (M = N(CH <sub>3</sub> ) <sub>4</sub> ), Tj ETQ <sub>1</sub>	1.0	1 0.784314 rg