

# Thomas Basch

## List of Publications by Year in descending order

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53  
papers

3,229  
citations

186265

28  
h-index

155660

55  
g-index

58  
all docs

58  
docs citations

58  
times ranked

4217  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Characterization of Highly Luminescent CdSe <sup>2+</sup> Core CdS/Zn <sub>0.5</sub> Cd <sub>0.5</sub> /ZnS Multishell Nanocrystals. <i>Journal of the American Chemical Society</i> , 2005, 127, 7480-7488.	13.7	857
2	Supramolecular Complexes from CdSe Nanocrystals and Organic Fluorophors. <i>Langmuir</i> , 2001, 17, 2861-2865.	3.5	235
3	Excitation Energy Transfer in Organic Materials: From Fundamentals to Optoelectronic Devices. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1203-1231.	3.9	177
4	Electroluminescence from isolated CdSe <sup>2+</sup> •ZnS quantum dots in multilayered light-emitting diodes. <i>Journal of Applied Physics</i> , 2004, 96, 3206-3210.	2.5	144
5	Ultrafast Charge Separation in Multiexcited CdSe Quantum Dots Mediated by Adsorbed Electron Acceptors. <i>Journal of the American Chemical Society</i> , 2009, 131, 2424-2425.	13.7	133
6	Coherent Electronic Coupling versus Localization in Individual Molecular Dimers. <i>Physical Review Letters</i> , 2004, 92, 103001.	7.8	93
7	Electronic Excitation Energy Transfer between Two Single Molecules Embedded in a Polymer Host. <i>Physical Review Letters</i> , 2007, 98, 047802.	7.8	92
8	Watching the Photo-Oxidation of a Single Aromatic Hydrocarbon Molecule. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4192-4195.	13.8	90
9	Ultrafast Charge Separation at the CdSe/CdS Core/Shell Quantum Dot/Methylviologen Interface: Implications for Nanocrystal Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3949-3955.	3.1	85
10	Theoretical investigation of electronic excitation energy transfer in bichromophoric assemblies. <i>Journal of Chemical Physics</i> , 2008, 128, 074505.	3.0	84
11	Photon Antibunching and Collective Effects in the Fluorescence of Single Bichromophoric Molecules. <i>Physical Review Letters</i> , 2003, 91, 093903.	7.8	82
12	CdSe/ZnS Nanocrystals with Dye-Functionalized Polymer Ligands Containing Many Anchor Groups. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2437-2440.	13.8	79
13	Design and Synthesis of Colloidal Nanocrystal Heterostructures with Tetrapod Morphology. <i>Small</i> , 2006, 2, 1454-1457.	10.0	76
14	Energy Transfer Rates and Pathways of Single Donor Chromophores in a Multichromophoric Dendrimer Built around a Central Acceptor Core. <i>Journal of the American Chemical Society</i> , 2004, 126, 14364-14365.	13.7	75
15	A Simple and Versatile Route to Stable Quantum Dot <sup>2+</sup> Dye Hybrids in Nonaqueous and Aqueous Solutions. <i>Journal of the American Chemical Society</i> , 2008, 130, 17242-17243.	13.7	62
16	Photoblinking and photobleaching of rylene diimide dyes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1776-1785.	2.8	59
17	Synthesis of Heterotelechelic $\hat{\pm}$ Dye-Functionalized Polymer by the RAFT Process and Energy Transfer between the End Groups. <i>Macromolecules</i> , 2010, 43, 895-902.	4.8	57
18	Assembly and Separation of Semiconductor Quantum Dot Dimers and Trimers. <i>Journal of the American Chemical Society</i> , 2011, 133, 18062-18065.	13.7	49

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19	Acceptor Concentration Dependence of Förster Resonance Energy Transfer Dynamics in Dye-Quantum Dot Complexes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4396-4402.	3.1	48
20	Bio Serves Nano: Biological Light-Harvesting Complex as Energy Donor for Semiconductor Quantum Dots. <i>Langmuir</i> , 2012, 28, 5810-5818.	3.5	42
21	Origin of the Red Sites and Energy Transfer Rates in Single MEH-PPV Chains at Low Temperature. <i>ChemPhysChem</i> , 2011, 12, 1499-1508.	2.1	39
22	Dibenzo[ <i>hi</i> , <i>st</i> ]ovalene as Highly Luminescent Nanographene: Efficient Synthesis via Photochemical Cyclodehydroiodination, Optoelectronic Properties, and Single-Molecule Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 16439-16449.	13.7	39
23	Observation of Very Narrow Linewidths in the Fluorescence Excitation Spectra of Single Conjugated Polymer Chains at 1.2 ÅK. <i>Physical Review Letters</i> , 2007, 98, 208301.	7.8	38
24	Emergence of Coherence through Variation of Intermolecular Distances in a Series of Molecular Dimers. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 262-269.	4.6	37
25	Fluorescence Excitation and Emission Spectroscopy on Single MEH-PPV Chains at Low Temperature. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9700-9708.	2.6	35
26	Fluorescence intensity fluctuations of single atoms, molecules and nanoparticles. <i>Journal of Luminescence</i> , 1998, 76-77, 263-269.	3.1	32
27	Superexchange-mediated electronic energy transfer in a model dyad. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7378.	2.8	32
28	Flexibility of phenylene oligomers revealed by single molecule spectroscopy. <i>Journal of Chemical Physics</i> , 2006, 125, 144903.	3.0	23
29	Single-Molecule Spectroscopy of MEH-PPV Polymer Molecules in Different Host Matrices. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11484-11490.	3.1	23
30	The effect of surface charge on nonspecific uptake and cytotoxicity of CdSe/ZnS core/shell quantum dots. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 281-292.	2.8	22
31	Combined Experimental and Theoretical Study of the Vibronic Spectra of Perylenecarboximides. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1638-1647.	2.6	21
32	Polar accumulation of the metabolic sensory histidine kinases DcuS and CitA in <i>Escherichia coli</i> . <i>Microbiology (United Kingdom)</i> , 2008, 154, 2463-2472.	1.8	20
33	Probing the self-assembly and stability of oligohistidine based rod-like micelles by aggregation induced luminescence. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5574-5579.	2.8	20
34	Control of the Electronic Energy Transfer Pathway between Two Single Fluorophores by Dual Pulse Excitation. <i>Physical Review Letters</i> , 2009, 103, 103003.	7.8	19
35	Synthesis of an Acceptor-Donor-Acceptor Multichromophore Consisting of Terrylene and Perylene Diimides for Multistep Energy Transfer Studies. <i>Chemistry of Materials</i> , 2016, 28, 906-914.	6.7	19
36	Single Semiconductor Nanocrystals under Compressive Stress: Reversible Tuning of the Emission Energy. <i>Nano Letters</i> , 2017, 17, 1559-1563.	9.1	17

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37	Energy and Charge Transfer in Nanoscale Hybrid Materials. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1026-1046.	3.9	16
38	Conformational Dynamics of the Dengue Virus Protease Revealed by Fluorescence Correlation and Single-Molecule FRET Studies. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6837-6846.	2.6	14
39	Energy Transfer at the Single-Molecule Level: Synthesis of a Donor-Acceptor Dyad from Perylene and Terrylene Diimides. <i>Chemistry - A European Journal</i> , 2013, 19, 9160-9166.	3.3	13
40	The Folding of Individual Conjugated Polymer Chains during Annealing. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5256-5257.	13.8	12
41	Structure and luminescence properties of supramolecular polymers of amphiphilic aromatic thioether-peptide conjugates in water. <i>Polymer Chemistry</i> , 2019, 10, 3163-3169.	3.9	11
42	Dye label interference with RNA modification reveals 5-fluorouridine as non-covalent inhibitor. <i>Nucleic Acids Research</i> , 2014, 42, 12735-12745.	14.5	10
43	Assemblies of semiconductor quantum dots and light-harvesting-complex II. <i>Journal of Luminescence</i> , 2010, 130, 1624-1627.	3.1	9
44	Alkali Blues: Blue-Emissive Alkali Metal Pyrrolates. <i>Chemistry - A European Journal</i> , 2019, 25, 6542-6552.	3.3	9
45	Comparison of quantum dot-binding protein tags: Affinity determination by ultracentrifugation and FRET. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1651-1656.	2.4	7
46	Photodynamics at the CdSe Quantum Dot-Perylene Diimide Interface: Unraveling the Excitation Energy and Electron Transfer Pathways. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3277-3284.	3.1	7
47	Single Molecule Studies of a Ladder Type Conjugated Polymer: Vibronic Spectra, Line Widths, and Energy Transfer. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1096-1102.	3.9	6
48	Probing the Electronic State of a Single Coronene Molecule by the Emission from Proximate Fluorophores. <i>ChemPhysChem</i> , 2012, 13, 938-945.	2.1	5
49	Single Molecule Spectroscopy: Methodological Developments and Experiments at Low Temperature. <i>Single Molecules</i> , 2001, 2, 237-240.	0.9	2
50	Photothermal Contrast Reaches Single-Molecule Sensitivity. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3602-3604.	13.8	2
51	State transition identification in multivariate time series (STIMTS) applied to rotational jump trajectories from single molecules. <i>Journal of Chemical Physics</i> , 2018, 149, 164104.	3.0	2
52	Physikalische Chemie 2004. <i>Nachrichten Aus Der Chemie</i> , 2005, 53, 294-304.	0.0	1
53	Excitation localization in a trimeric perylenediimide macrocycle: Synthesis, theory, and single molecule spectroscopy. <i>Journal of Chemical Physics</i> , 2022, 156, 044304.	3.0	0