

David I Schuster

List of Publications by Year in descending order

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1931
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#	ARTICLE	IF	CITATIONS
1	Design, Synthesis, and Photophysical Studies of a Porphyrin-Fullerene Dyad with Parachute Topology; Charge Recombination in the Marcus Inverted Region. <i>Journal of the American Chemical Society</i> , 2004, 126, 7257-7270.	13.7	187
2	[2]Catenanes Decorated with Porphyrin and [60]Fullerene Groups: Design, Convergent Synthesis, and Photoinduced Processes. <i>Journal of the American Chemical Society</i> , 2010, 132, 3847-3861.	13.7	121
3	Azobenzene-Linked Porphyrin~Fullerene Dyads. <i>Journal of the American Chemical Society</i> , 2007, 129, 15973-15982.	13.7	112
4	Synthesis and Characterization of Water-Soluble Amino Fullerene Derivatives. <i>Organic Letters</i> , 2000, 2, 1011-1014.	4.6	108
5	Synthesis and Cation-Mediated Electronic Interactions of Two Novel Classes of Porphyrin~Fullerene Hybrids. <i>Journal of the American Chemical Society</i> , 1997, 119, 8363-8364.	13.7	104
6	General Method for Synthesis of Functionalized Macrocycles and Catenanes Utilizing "Click" Chemistry. <i>Journal of the American Chemical Society</i> , 2008, 130, 12872-12873.	13.7	103
7	Novel Porphyrin-Fullerene Assemblies:~% from Rotaxanes to Catenanes. <i>Organic Letters</i> , 2004, 6, 1919-1922.	4.6	73
8	The Anomalous Reactivity of Fluorobenzene in Electrophilic Aromatic Substitution and Related Phenomena. <i>Journal of Chemical Education</i> , 2003, 80, 679.	2.3	64
9	Molecular modelling of fullerene~"porphyrin dyads. <i>Journal of Materials Chemistry</i> , 2002, 12, 2041-2047.	6.7	60
10	Synthetic Approaches to a Variety of Covalently Linked Porphyrin~Fullerene Hybrids. <i>Journal of Organic Chemistry</i> , 2001, 66, 5449-5455.	3.2	56
11	Efficient One-Pot Synthesis of Rotaxanes Bearing Electron Donors and [60]Fullerene. <i>Organic Letters</i> , 2009, 11, 4152-4155.	4.6	55
12	Synthesis and Photophysical Properties of Steroid-Linked Porphyrin~Fullerene Hybrids. <i>Organic Letters</i> , 1999, 1, 729-732.	4.6	54
13	Photocycloaddition of Cyclic 1,3-Diones to C60. <i>Journal of the American Chemical Society</i> , 1997, 119, 7303-7307.	13.7	47
14	"Click" Methodology for Synthesis of Functionalized [3]Catenanes: Toward Higher Interlocked Structures. <i>Chemistry - A European Journal</i> , 2009, 15, 5444-5448.	3.3	47
15	Topological and Conformational Effects on Electron Transfer Dynamics in Porphyrin-[60]Fullerene Interlocked Systems. <i>Chemistry of Materials</i> , 2012, 24, 2472-2485.	6.7	43
16	Multistep energy and electron transfer processes in novel rotaxane donor~"acceptor hybrids generating microsecond-lived charge separated states. <i>Chemical Science</i> , 2015, 6, 7293-7304.	7.4	43
17	Design, synthesis and photoinduced processes in molecular interlocked photosynthetic [60]fullerene systems. <i>Chemical Society Reviews</i> , 2020, 49, 8-20.	38.1	40
18	Chemoselective Synthesis and Resolution of Chiral [1,9]Methanofullerene[70] Derivatives. <i>Journal of Organic Chemistry</i> , 1996, 61, 5198-5199.	3.2	39

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19	Alternative Demetalation Method for Cu(I)-Phenanthroline-Based Catenanes and Rotaxanes. <i>Organic Letters</i> , 2011, 13, 1808-1811.	4.6	38
20	Synthesis and photophysical properties of new catenated electron donor-acceptor materials with magnesium and free base porphyrins as donors and C ₆₀ as the acceptor. <i>Nanoscale</i> , 2015, 7, 1145-1160.	5.6	38
21	The dissolution of carbon nanotubes in aniline, revisited. Electronic Supplementary Information (ESI) available: additional TEM pictures of aniline treated MWNTs and SEM of the PTFE membranes used in the work. See http://www.rsc.org/suppdata/jm/b4/b403509g/ . <i>Journal of Materials Chemistry</i> , 2004, 14, 2749.	6.7	35
22	RESEARCH NOTE. <i>Photochemistry and Photobiology</i> , 1990, 52, 645-648.	2.5	30
23	Formation and photophysics of a stable concave-convex supramolecular complex of C ₆₀ and a substituted s-triazine derivative. <i>Chemical Communications</i> , 2002, , 2538-2539.	4.1	29
24	Introduction of useful peripheral functional groups on [2]catenanes by combining Cu(i) template synthesis with click-chemistry. <i>New Journal of Chemistry</i> , 2010, 34, 276-286.	2.8	29
25	Synthesis and Photophysics of a Copper-Porphyrin-Styrene-C ₆₀ Hybrid. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3215-3221.	2.5	27
26	Convergent Synthesis and Photoinduced Processes in Multi-Chromophoric Rotaxanes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14408-14419.	2.6	26
27	Optimizing reaction conditions for synthesis of electron donor-[60]fullerene interlocked multiring systems. <i>Journal of Materials Chemistry</i> , 2011, 21, 1544-1550.	6.7	25
28	Synthesis and fluorescence properties of a porphyrin-fullerene molecular wire. <i>Journal of Physical Organic Chemistry</i> , 2004, 17, 814-818.	1.9	18
29	Preparation of [60]fullerene tris-malonate adducts by addend removal from higher adducts via the electrochemical retro-Bingel reaction. <i>Perkin Transactions II RSC</i> , 2000, , 1924-1928.	1.1	17
30	NANOSECOND KINETIC ABSORPTION AND CALORIMETRIC STUDIES OF CYCLOPENTENONE: THE TRIPLET, SELF-QUENCHING, AND THE PREDIMERIZATION BIRADICALS. <i>Photochemistry and Photobiology</i> , 1991, 53, 159-164.	2.5	15
31	Nanotubes reveal all in solution. <i>Nature Chemistry</i> , 2009, 1, 182-183.	13.6	13
32	The Mechanism of Interaction of Triplet 3-Methylcyclohex-2-en-1-one with Maleo- and fumarodinitrile: Evidence for Direct Formation of Triplet 1,4-Biradicals in [2+ 2] Photocyclo- additions without the Intermediacy of Exciplexes. <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 1345-1347.	4.4	12
33	Photoexcited State Properties of H ₂ -Porphyrin/C ₆₀ -Based Rotaxanes as Studied by Time-Resolved Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5044-5052.	2.5	12
34	Reflections on a Fifty-Year Career in Organic Photochemistry: A Personal Perspective. <i>Journal of Organic Chemistry</i> , 2013, 78, 6811-6841.	3.2	11
35	Synthesis, photochemistry and photophysics of stilbene-derivatized fullerenes. <i>Photochemical and Photobiological Sciences</i> , 2003, 2, 315-321.	2.9	10
36	Photoinduced Processes in Some Mechanically Interlocked Supramolecules as Studied by Time-Resolved Electron Paramagnetic Resonance. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24555-24563.	3.1	8

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37	Short Communication: Some Photophysical Properties of Nanotubes, Fullerenes, Nanotubes, and Carbon Nanostructures, 1999, 7, 921-925.	0.6	7
38	PHOTOCHEMISTRY OF KETONES IN SOLUTION-49 A STUDY OF PHOTSENSITIZED SPLITTING OF DIMETHYLTHYMINE DIMERS. Photochemistry and Photobiology, 1977, 25, 239-242.	2.5	6
39	The photochemistry of enones. , 0, , 623-756.		5
40	Synthesis of Electron Donor-[60]Fullerene Multi-Ring Interlocked Systems. World Scientific Series on Carbon Nanoscience, 2011, , 207-244.	0.1	3
41	Photochemical technology. Von A. M. Braun, M. Maurette und E. Oliveros. Wiley, Chichester, 1991. XII, 559 S., geb. £95.00. ISBN 0471926523. Angewandte Chemie, 1992, 104, 1563-1564.	2.0	2
42	Virtual Logical Qubits: A Compact Architecture for Fault-Tolerant Quantum Computing. IEEE Micro, 2021, 41, 95-101.	1.8	2
43	?-Flupenthixyl chloride: Binding profile to dopaminergic, serotonergic, adrenergic, and cholinergic neuro-receptors. Drug Development Research, 1988, 15, 381-387.	2.9	1