

# Timothy Schmidt

## List of Publications by Year in descending order

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198  
papers

6,615  
citations

87843

38  
h-index

79644

73  
g-index

220  
all docs

220  
docs citations

220  
times ranked

5197  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optically Coupled Upconversion Solar Cells. , 2022, , 197-207.		0
2	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. <i>Joule</i> , 2022, 6, 8-15.	11.7	66
3	The Hitchhiker's Guide to the Wave Function. <i>Journal of Physical Chemistry A</i> , 2022, 126, 979-991.	1.1	3
4	The dynamics of CO production from the photolysis of acetone across the whole S1 $\rightarrow$ S0 absorption spectrum: Roaming and triple fragmentation pathways.. <i>Journal of Chemical Physics</i> , 2022, 156, 094303.	1.2	1
5	Simulations of Luminescent Solar Concentrator Bifacial Photovoltaic Mosaic Devices Containing Four Different Organic Luminophores. <i>IEEE Journal of Photovoltaics</i> , 2022, 12, 771-777.	1.5	8
6	Measured power conversion efficiencies of bifacial luminescent solar concentrator photovoltaic devices of the mosaic series. <i>Progress in Photovoltaics: Research and Applications</i> , 2022, 30, 726-739.	4.4	13
7	PAH Growth in Flames and Space: Formation of the Phenalenyl Radical. <i>Journal of Physical Chemistry A</i> , 2022, 126, 101-108.	1.1	8
8	Challenges, progress and prospects in solid state triplet fusion upconversion. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7783-7798.	2.7	40
9	Diabatic Valence-Hole States in the C <sub>2</sub> Molecule: "Putting Humpty Dumpty Together Again" <i>Journal of Physical Chemistry A</i> , 2022, 126, 3090-3100.	1.1	8
10	Singlet fission photovoltaics: Progress and promising pathways. <i>Chemical Physics Reviews</i> , 2022, 3, .	2.6	24
11	Mapping the aliphatic hydrocarbon content of interstellar dust in the Galactic plane. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 4201-4216.	1.6	3
12	The Spectroscopy of C <sub>2</sub> : A Cosmic Beacon. <i>Accounts of Chemical Research</i> , 2021, 54, 481-489.	7.6	15
13	An All-Photonic Molecular Amplifier and Binary Flip-flop. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1236-1243.	2.1	1
14	Singlet fission and tandem solar cells reduce thermal degradation and enhance lifespan. <i>Progress in Photovoltaics: Research and Applications</i> , 2021, 29, 899-906.	4.4	12
15	Harnessing Sunlight via Molecular Photon Upconversion. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32601-32605.	4.0	33
16	Singlet Fission in Concentrated TIPS-Pentacene Solutions: The Role of Excimers and Aggregates. <i>Journal of the American Chemical Society</i> , 2021, 143, 13749-13758.	6.6	22
17	Comment on "Tremendously enhanced photocurrent enabled by triplet-triplet annihilation up-conversion for high-performance perovskite solar cells" by W. Sheng, J. Yang, X. Li, G. Liu, Z. Lin, J. Long, S. Xiao, L. Tan and Y. Chen, <i>Energy Environ. Sci.</i> , 2021, 14, 3532. <i>Energy and Environmental Science</i> , 2021, 14, 6050-6052.	15.6	2
18	Singlet and Triplet Exciton Dynamics of Violanthrone. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22464-22471.	1.5	3

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19	Improved optical confinement in ambipolar field-effect transistors toward electrical injection organic lasers. <i>Applied Physics Letters</i> , 2021, 119, 163303.	1.5	1
20	Velocity Map Imaging Spectroscopy of the Dipole-Bound State of CH <sub>2</sub> CN <sup>+</sup> : Implications for the Diffuse Interstellar Bands. <i>Journal of the American Chemical Society</i> , 2021, 143, 18684-18692.	6.6	12
21	Large, Tunable, and Reversible pH Changes by Merocyanine Photoacids. <i>Journal of the American Chemical Society</i> , 2021, 143, 20758-20768.	6.6	43
22	Optical analysis of an integrated solar cell and a photon up converter, providing guidance for future device engineering efforts. <i>Journal of Applied Physics</i> , 2021, 130, 194501.	1.1	2
23	Photodissociation of dicarbon: How nature breaks an unusual multiple bond. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	16
24	Visualizing the 30-Dimensional Antisymmetrized Electronic Structure of Water: The Emergence of Lone Pairs. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 735-739.	2.1	6
25	Photochemical upconversion of near-infrared light from below the silicon bandgap. <i>Nature Photonics</i> , 2020, 14, 585-590.	15.6	88
26	Organic polariton lasing with molecularly isolated perylene diimides. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	11
27	On the Quantum Yield of Photon Upconversion via Triplet-Triplet Annihilation. <i>ACS Energy Letters</i> , 2020, 5, 2322-2326.	8.8	137
28	Development of tethered dual catalysts: synergy between photo- and transition metal catalysts for enhanced catalysis. <i>Chemical Science</i> , 2020, 11, 6256-6267.	3.7	20
29	The electronic structure of benzene from a tiling of the correlated 126-dimensional wavefunction. <i>Nature Communications</i> , 2020, 11, 1210.	5.8	23
30	Energy Transfer between Perylene Diimide Based Ligands and Cesium Lead Bromide Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3306-3313.	1.5	24
31	A method for mapping the aliphatic hydrocarbon content of interstellar dust towards the Galactic Centre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 1109-1119.	1.6	5
32	Electronic Wavefunction Tiles. <i>Australian Journal of Chemistry</i> , 2020, 73, 757.	0.5	4
33	Photochemical Upconversion Theory: Importance of Triplet Energy Levels and Triplet Quenching. <i>Physical Review Applied</i> , 2019, 12, .	1.5	5
34	A Marcus-Hush perspective on adiabatic singlet fission. <i>Journal of Chemical Physics</i> , 2019, 151, .	1.2	7
35	Quantum-Induced Symmetry Breaking in the Deuterated Dihydroanthracenyl Radical. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6711-6719.	1.1	5
36	Intramolecular Versus Intermolecular Triplet Fusion in Multichromophoric Photochemical Upconversion. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20181-20187.	1.5	42

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37	First-Principles Calculation of Triplet Exciton Diffusion in Crystalline Poly( <i>p</i> -phenylene) Tj ETQq1 1 0.784314 <sub>1.8</sub> / Overlock 10	1.5	7
38	Future and challenges for hybrid upconversion nanosystems. <i>Nature Photonics</i> , 2019, 13, 828-838.	15.6	145
39	Excimer Formation in Carboxylic Acid-Functionalized Perylene Diimides Attached to Silicon Dioxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3433-3440.	1.5	20
40	Electronic transitions of molecules: vibrating Lewis structures. <i>Chemical Science</i> , 2019, 10, 6809-6814.	3.7	10
41	Inter-ligand energy transfer in dye chromophores attached to high bandgap SiO <sub>2</sub> nanoparticles. <i>Chemical Communications</i> , 2019, 55, 8804-8807.	2.2	4
42	Charting a course for chemistry. <i>Nature Chemistry</i> , 2019, 11, 286-294.	6.6	18
43	Aliphatic hydrocarbon content of interstellar dust. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 241-244.	0.0	1
44	Plasmonic effects on CO <sub>2</sub> reduction over bimetallic Ni-Au catalysts. <i>Chemical Engineering Science</i> , 2019, 194, 94-104.	1.9	42
45	Competing Energy Transfer Pathways in a Five-Chromophore Perylene Array. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13937-13943.	1.5	11
46	Multihydroxy- $\alpha$ -Anthraquinone Derivatives as Free Radical and Cationic Photoinitiators of Various Photopolymerizations under Green LED. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800172.	2.0	28
47	Calculating curly arrows from ab initio wavefunctions. <i>Nature Communications</i> , 2018, 9, 1436.	5.8	23
48	Endothermic singlet fission is hindered by excimer formation. <i>Nature Chemistry</i> , 2018, 10, 305-310.	6.6	130
49	Interconversion of Methyltropylium and Xylyl Radicals: A Pathway Unavailable to the Benzyl-Tropylium Rearrangement. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1261-1269.	1.1	13
50	An add-on organic green-to-blue photon-upconversion layer for organic light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3845-3848.	2.7	16
51	Higher vibrational levels of the $D_1$ state of dicarbon. <i>New Mulliken Bands. Journal of Molecular Spectroscopy</i> , 2018, 344, 1-5.	0.4	7
52	Jet-Cooled Spectroscopy of <i>ortho</i> -Hydroxycyclohexadienyl Radicals. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8886-8897.	1.1	3
53	Optimization of energy transfer in a polymer composite with perylene chromophores. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7333-7342.	2.7	7
54	Photochemical upconversion is suppressed by high concentrations of molecular sensitizers. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19500-19506.	1.3	31

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55	Crystalline silicon solar cells with tetracene interlayers: the path to silicon-singlet fission heterojunction devices. <i>Materials Horizons</i> , 2018, 5, 1065-1075.	6.4	92
56	Aliphatic hydrocarbon content of interstellar dust. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 4336-4344.	1.6	15
57	TIPS-anthracene: a singlet fission or triplet fusion material?. <i>Journal of Photonics for Energy</i> , 2018, 8, 1.	0.8	14
58	All-optical augmentation of solar cells using a combination of up- and downconversion. <i>Journal of Photonics for Energy</i> , 2018, 8, 1.	0.8	11
59	Special Section Guest Editorial: Spectral Management for Renewable Energy Conversion. <i>Journal of Photonics for Energy</i> , 2018, 8, 1.	0.8	0
60	Optimizing the Efficiency of Solar Photon Upconversion. <i>ACS Energy Letters</i> , 2017, 2, 1346-1354.	8.8	104
61	Role of Surface Capping Molecule Polarity on the Optical Properties of Solution Synthesized Germanium Nanocrystals. <i>Langmuir</i> , 2017, 33, 8790-8798.	1.6	4
62	First observation of the $3\hat{1}g_3$ state of C2: Born-Oppenheimer breakdown. <i>Journal of Chemical Physics</i> , 2017, 146, 134306.	1.2	12
63	The $\langle i \rangle e \langle i \rangle \hat{1}g_3$ state of C2: A pathway to dissociation. <i>Journal of Chemical Physics</i> , 2017, 147, 024305.	1.2	12
64	Hydrogen-adduction to open-shell graphene fragments: spectroscopy, thermochemistry and astrochemistry. <i>Chemical Science</i> , 2017, 8, 1186-1194.	3.7	6
65	Extended hot carrier lifetimes observed in bulk $\text{In}_{0.265}\text{Ga}_{0.735}\text{N}$ under high-density photoexcitation. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	22
66	The ionization energy of C2. <i>Journal of Chemical Physics</i> , 2016, 144, 144305.	1.2	13
67	Electronic spectrum of 9-methylantracene radical cation. <i>Journal of Chemical Physics</i> , 2016, 144, 154303.	1.2	0
68	Limitations and design considerations for donor-acceptor systems in luminescent solar concentrators: the effect of coupling-induced red-edge absorption. <i>Journal of Optics (United Kingdom)</i> , 2016, 17, 014001.	1.7	17
69	Luminescent solar concentrators utilizing stimulated emission. <i>Optics Express</i> , 2016, 24, A497.	1.7	11
70	Effect of gold nanoparticle shapes for phototherapy and drug delivery. <i>Polymer Chemistry</i> , 2016, 7, 2888-2903.	1.9	68
71	Optical gain characterization of Perylene Red-doped PMMA for different pump configurations. <i>Applied Optics</i> , 2016, 55, 178.	2.1	7
72	Spectral dependence of direct and trap-mediated recombination processes in lead halide perovskites using time resolved microwave conductivity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12043-12049.	1.3	21

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73	Chemical bonding motifs from a tiling of the many-electron wavefunction. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13385-13394.	1.3	29
74	The electronic spectroscopy of resonance-stabilised hydrocarbon radicals. <i>International Reviews in Physical Chemistry</i> , 2016, 35, 209-242.	0.9	29
75	Energy transfer in pendant perylene diimide copolymers. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8270-8275.	2.7	27
76	Morphological Evolution and Singlet Fission in Aqueous Suspensions of TIPS-Pentacene Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 157-165.	1.5	71
77	Hydrogen-atom attack on phenol and toluene is ortho-directed. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8625-8636.	1.3	9
78	Hot Carrier Cooling in $\text{In}_{0.17}\text{Ga}_{0.83}\text{As}/\text{GaAs}_{0.80}\text{P}_{0.20}$ Multiple Quantum Wells: The Effect of Barrier Thickness. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 166-171.	1.5	7
79	Increased upconversion performance for thin film solar cells: a trimolecular composition. <i>Chemical Science</i> , 2016, 7, 559-568.	3.7	78
80	A new role of curcumin: as a multicolor photoinitiator for polymer fabrication under household UV to red LED bulbs. <i>Polymer Chemistry</i> , 2015, 6, 5053-5061.	1.9	95
81	Beyond Shockley-Queisser: Molecular Approaches to High-Efficiency Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2367-2378.	2.1	142
82	Luminescent solar concentrator improvement by stimulated emission. , 2015, , .		0
83	Atmospheric oxidation intermediates: Laser spectroscopy of resonance-stabilized radicals from p-cymene. <i>Chemical Physics Letters</i> , 2015, 620, 129-133.	1.2	8
84	Deuteration of Perylene Enhances Photochemical Upconversion Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3061-3066.	2.1	21
85	H and D Attachment to Naphthalene: Spectra and Thermochemistry of Cold Gas-Phase $1\text{-C}_{10}\text{H}_9$ and $1\text{-C}_{10}\text{H}_8\text{D}$ Radicals and Cations. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3225-3232.	1.1	10
86	Double-resonance spectroscopy of radicals: higher electronic excited states of 1- and 2-naphthylmethyl, 1-phenylpropargyl and 9-anthracenylmethyl. <i>Molecular Physics</i> , 2015, 113, 2138-2147.	0.8	9
87	An intermediate band dye-sensitised solar cell using triplet-triplet annihilation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24826-24830.	1.3	77
88	Ultrafast Carrier Dynamics of a Photo-Excited Germanium Nanowire-Air Metamaterial. <i>ACS Photonics</i> , 2015, 2, 1091-1098.	3.2	10
89	Resonance-Enhanced 2-Photon Ionization Scheme for $\text{C}_2$ through a Newly Identified Band System: $4^3\text{I}^g \leftarrow 3^3\text{I}^g$ . <i>Journal of Physical Chemistry A</i> , 2015, 119, 12102-12108.	1.1	20
90	Photochemical upconversion of light for renewable energy and more. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3

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91	Highly efficient photochemical upconversion in a quasi-solid organogel. <i>Journal of Materials Chemistry C</i> , 2015, 3, 616-622.	2.7	72
92	Photochemical upconversion: present status and prospects for its application to solar energy conversion. <i>Energy and Environmental Science</i> , 2015, 8, 103-125.	15.6	471
93	High-concentration Photochemical Upconverters. , 2014, , .		0
94	Photochemical Upconversion: The Primacy of Kinetics. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4062-4072.	2.1	229
95	Ionization Energies of Three Resonance-Stabilized Radicals: Cyclohexadienyl ( $d_{n<i>n</i>}$ ) Tj ETQq1 1 0.784314 rgBT /Ove 2014, 118, 10252-10258.	1.1	11
96	Action spectrum experiment for the measurement of incoherent photon upconversion efficiency under sun-like excitation. <i>RSC Advances</i> , 2014, 4, 52749-52756.	1.7	18
97	Kinetic insight into bimolecular upconversion: experiment and simulation. <i>RSC Advances</i> , 2014, 4, 8059-8063.	1.7	16
98	Ultrafast Electron and Phonon Response of Oriented and Diameter-Controlled Germanium Nanowire Arrays. <i>Nano Letters</i> , 2014, 14, 3427-3431.	4.5	17
99	Integrating a Triplet-triplet Annihilation Up-conversion System to Enhance Dye-sensitized Solar Cell Response to Sub-bandgap Light. <i>Journal of Visualized Experiments</i> , 2014, , 52028.	0.2	3
100	Tunable Self-Assembly of Triazole-Linked Porphyrin-Polymer Conjugates. <i>Chemistry - A European Journal</i> , 2013, 19, 12759-12770.	1.7	38
101	The exciton dynamics in tetracene thin films. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14797.	1.3	106
102	Visible Photodissociation Spectra of the 1- and 2-Methylnaphthalene Cations: Laser Spectroscopy and Theoretical Simulations. <i>Journal of Physical Chemistry A</i> , 2013, 117, 13664-13672.	1.1	6
103	Micro-optical design of photochemical upconverters for thin-film solar cells. <i>Journal of Photonics for Energy</i> , 2013, 3, 034598.	0.8	21
104	Nanostructured upconverters for improved solar cell performance. <i>Proceedings of SPIE</i> , 2013, , .	0.8	12
105	Using Atomic Orbitals and Kinesthetic Learning To Authentically Derive Molecular Stretching Vibrations. <i>Journal of Chemical Education</i> , 2013, 90, 889-893.	1.1	8
106	Line strengths and updated molecular constants for the C2 Swan system. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 124, 11-20.	1.1	117
107	Dye-Sensitized Solar Cell with Integrated Triplet-Triplet Annihilation Upconversion System. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2073-2078.	2.1	158
108	Excitation Spectra of Large Jet-Cooled Polycyclic Aromatic Hydrocarbon Radicals: 9-Anthracenylmethyl ( $C_{15}H_{11}$ ) and 1-Pyrenylmethyl ( $C_{17}H_{11}$ ). <i>Journal of Physical Chemistry A</i> , 2013, 117, 13899-13907.	1.1	9

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109	Molecular Polarization Switching for Improved Light Coupling in Luminescent Solar Concentrators. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2874-2879.	2.1	22
110	Triple-Resonance Spectroscopy Reveals the Excitation Spectrum of Very Cold, Isomer-Specific Protonated Naphthalene. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3728-3732.	2.1	14
111	An agnostic approach. <i>Nature Nanotechnology</i> , 2013, 8, 886-887.	15.6	2
112	Laboratory Spectroscopy of PAHs. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 247-257.	0.0	2
113	Synthesis and Luminescence Properties of Iridium(III) Azide- and Triazole-Bisterpyridine Complexes. <i>Molecules</i> , 2013, 18, 8959-8975.	1.7	9
114	InGaAs/GaAsP quantum wells for hot carrier solar cells. <i>Proceedings of SPIE</i> , 2012, , .	0.8	25
115	Improving the light-harvesting of second generation solar cells with photochemical upconversion. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
116	Hydroxyl Addition to Aromatic Alkenes: Resonance-Stabilized Radical Intermediates. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7906-7915.	1.1	18
117	Excitation Spectra of the Jet-Cooled 4-Phenylbenzyl and 4-(4-Methylphenyl)benzyl Radicals. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10780-10785.	1.1	7
118	Efficiency Enhancement of Organic and Thin-Film Silicon Solar Cells with Photochemical Upconversion. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22794-22801.	1.5	167
119	Thermodynamic Limit of Exciton Fission Solar Cell Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2749-2754.	2.1	95
120	Improving the light-harvesting of amorphous silicon solar cells with photochemical upconversion. <i>Energy and Environmental Science</i> , 2012, 5, 6953.	15.6	339
121	Downconversion. , 2012, , 549-561.		1
122	Upconversion. , 2012, , 533-548.		4
123	Photochemical Upconversion Enhanced Solar Cells: Effect of a Back Reflector. <i>Australian Journal of Chemistry</i> , 2012, 65, 480.	0.5	85
124	On the electronic spectroscopy of closed-shell cations derived from resonance-stabilized radicals: Insights from theory and Franck-Condon analysis. <i>Astronomy and Astrophysics</i> , 2012, 541, A8.	2.1	8
125	Interplay between the hot phonon effect and intervalley scattering on the cooling rate of hot carriers in GaAs and InP. <i>Progress in Photovoltaics: Research and Applications</i> , 2012, 20, 82-92.	4.4	61
126	Synthesis and Ultrafast Excited-State Dynamics of Zinc and Palladium Triply Fused Diporphyrins. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7898-7905.	1.1	9

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127	Photochemical Upconversion Applied to Organic and Thin Film Silicon Solar Cells. , 2012, , .		0
128	Two-photon triplet-triplet annihilation upconversion for photovoltaics. , 2011, , .		1
129	Photophysical properties of a new series of water soluble iridium bisterpyridine complexes functionalised at the 4 <sup>th</sup> position. Dalton Transactions, 2011, 40, 2053.	1.6	37
130	The spectroscopy and thermochemistry of phenylallyl radical chromophores. Chemical Science, 2011, 2, 1755.	3.7	26
131	Excitation and Emission Spectra of Jet-Cooled Naphthylmethyl Radicals. Journal of Physical Chemistry A, 2011, 115, 7959-7965.	1.1	16
132	Entropically Driven Photochemical Upconversion. Journal of Physical Chemistry A, 2011, 115, 1047-1053.	1.1	84
133	The structure and luminescence properties of europium(iii) triflate doped self-assembled pyromellitimide gels. New Journal of Chemistry, 2011, 35, 1466.	1.4	16
134	Singlet Oxygen Mediated Photochemical Upconversion of NIR Light. Journal of Physical Chemistry Letters, 2011, 2, 966-971.	2.1	55
135	Luminescent Hyperbranched Polymers: Combining Thiol-Yne Chemistry with Gold-Mediated C-H Bond Activation. Organometallics, 2011, 30, 1315-1318.	1.1	47
136	Hot carrier dynamics in InGaAs/GaAsP quantum well solar cells. , 2011, , .		16
137	Spectroscopy of the Free Phenalenyl Radical. Journal of the American Chemical Society, 2011, 133, 14554-14557.	6.6	36
138	The 15 <sup>th</sup> state of C2. Journal of Chemical Physics, 2011, 134, 224311.	1.2	22
139	Electronic Spectroscopy of PAHs. EAS Publications Series, 2011, 46, 355-371.	0.3	13
140	Spectroscopy and thermochemistry of a jet-cooled open-shell polyene: 1,4-pentadienyl radical. Journal of Chemical Physics, 2011, 135, 124306.	1.2	12
141	The efficiency limit of solar cells with molecular absorbers: A master equation approach. Journal of Applied Physics, 2010, 108, 124506.	1.1	22
142	Molecular approaches to third generation photovoltaics: photochemical up-conversion. , 2010, , .		5
143	Kinetic Analysis of Photochemical Upconversion by Triplet-Triplet Annihilation: Beyond Any Spin Statistical Limit. Journal of Physical Chemistry Letters, 2010, 1, 1795-1799.	2.1	248
144	On the efficiency limit of triplet-triplet annihilation for photochemical upconversion. Physical Chemistry Chemical Physics, 2010, 12, 66-71.	1.3	342

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145	Towards an aligned luminophore solar concentrator. <i>Optics Express</i> , 2010, 18, A161.	1.7	45
146	Quantum chemical study and experimental observation of a new band system of C <sub>2</sub> , e <sup>+</sup> g <sup>-</sup> u <sup>+</sup> . <i>Journal of Chemical Physics</i> , 2009, 131, 044301.	1.2	30
147	Gas-phase spectroscopy of the 2 <sup>+</sup> electronic transition of CCS. <i>Journal of Chemical Physics</i> , 2009, 130, 014302.	1.2	2
148	Laser-induced fluorescence and dispersed fluorescence spectroscopy of jet-cooled 1-phenylpropargyl radical. <i>Journal of Chemical Physics</i> , 2009, 130, 144313.	1.2	27
149	An experimental and theoretical study on vibrational structure in the B <sup>1</sup> Σ <sup>+</sup> transition of CH <sub>2</sub> CHS. <i>Journal of Chemical Physics</i> , 2009, 131, 104310.	1.2	5
150	Current assessment of the Red Rectangle band problem. <i>Astrophysics and Space Science</i> , 2009, 323, 337-344.	0.5	12
151	Identification of the Jet-Cooled 1-Indanyl Radical by Electronic Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10279-10283.	1.1	23
152	The C-H Stretch Intensities of Polycyclic Aromatic Hydrocarbon Cations. Origins and Astrophysical Implications. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3535-3541.	1.1	10
153	Spectroscopic Identification of the Resonance-Stabilized <i>c</i> - and <i>t</i> -1-Vinylpropargyl Radicals. <i>Journal of the American Chemical Society</i> , 2009, 131, 13423-13429.	6.6	41
154	Efficient up-conversion by triplet-triplet annihilation. <i>Journal of Physics: Conference Series</i> , 2009, 185, 012002.	0.3	39
155	Two-dimensional fluorescence spectroscopy for the identification of discharge intermediates. <i>Journal of Physics: Conference Series</i> , 2009, 185, 012037.	0.3	1
156	Unraveling the <sup>1</sup> B <sub>1</sub> - <sup>1</sup> A <sub>1</sub> Spectrum of CCl <sub>2</sub> : The Renner-Teller Effect, Barrier to Linearity, and Vibrational Analysis Using an Effective Polyad Hamiltonian. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11355-11362.	1.1	13
157	Spectroscopic Observation of the Resonance-Stabilized 1-Phenylpropargyl Radical. <i>Journal of the American Chemical Society</i> , 2008, 130, 3137-3142.	6.6	63
158	A molecular approach to the intermediate band solar cell: The symmetric case. <i>Applied Physics Letters</i> , 2008, 93, 063507.	1.5	93
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