Timothy Schmidt

List of Publications by Year
in descending order

198	6,615	87843 38	79644 73
papers	citations	h-index	g-index

220	220	220	5197
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photochemical upconversion: present status and prospects for its application to solar energy conversion. Energy and Environmental Science, 2015, 8, 103-125.	15.6	471
2	On the efficiency limit of tripletâ€“triplet annihilation for photochemical upconversion. Physical Chemistry Chemical Physics, 2010, 12, 66-71.	1.3	342
3	Improving the light-harvesting of amorphous silicon solar cells with photochemical upconversion. Energy and Environmental Science, 2012, 5, 6953.	15.6	339
4	Kinetic Analysis of Photochemical Upconversion by Tripletâ^'Triplet Annihilation: Beyond Any Spin Statistical Limit. Journal of Physical Chemistry Letters, 2010, 1, 1795-1799.	2.1	248
5	Photochemical Upconversion: The Primacy of Kinetics. Journal of Physical Chemistry Letters, 2014, 5, 4062-4072.	2.1	229
6	Efficiency Enhancement of Organic and Thin-Film Silicon Solar Cells with Photochemical Upconversion. Journal of Physical Chemistry C, 2012, 116, 22794-22801.	1.5	167
7	Dye-Sensitized Solar Cell with Integrated Tripletâ€“Triplet Annihilation Upconversion System. Journal of Physical Chemistry Letters, 2013, 4, 2073-2078.	2.1	158
8	Future and challenges for hybrid upconversion nanosystems. Nature Photonics, 2019, 13, 828-838.	15.6	145
9	Beyond Shockleyâ€“Queisser: Molecular Approaches to High-Efficiency Photovoltaics. Journal of Physical Chemistry Letters, 2015, 6, 2367-2378.	2.1	142
10	On the Quantum Yield of Photon Upconversion via Tripletâ€“Triplet Annihilation. ACS Energy Letters, 2020, 5, 2322-2326.	8.8	137
11	Endothermic singlet fission is hindered by excimer formation. Nature Chemistry, 2018, 10, 305-310.	6.6	130
12	Line strengths and updated molecular constants for the C2 Swan system. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 124, 11-20.	1.1	117
13	The exciton dynamics in tetracene thin films. Physical Chemistry Chemical Physics, 2013, 15, 14797.	1.3	106
14	Optimizing the Efficiency of Solar Photon Upconversion. ACS Energy Letters, 2017, 2, 1346-1354.	8.8	104
15	Thermodynamic Limit of Exciton Fission Solar Cell Efficiency. Journal of Physical Chemistry Letters, 2012, 3, 2749-2754.	2.1	95
16	A new role of curcumin: as a multicolor photoinitiator for polymer fabrication under household UV to red LED bulbs. Polymer Chemistry, 2015, 6, 5053-5061.	1.9	95
17	A molecular approach to the intermediate band solar cell: The symmetric case. Applied Physics Letters, 2008, 93, 063507.	1.5	93
18	Crystalline silicon solar cells with tetracene interlayers: the path to silicon-singlet fission heterojunction devices. Materials Horizons, 2018, 5, 1065-1075.	6.4	92

#	Article	IF	Citations
19	Photochemical upconversion of near-infrared light from below the silicon bandgap. Nature Photonics, 2020, 14, 585-590.	15.6	88
20	Photochemical Upconversion Enhanced Solar Cells: Effect of a Back Reflector. Australian Journal of Chemistry, 2012, 65, 480.	0.5	85
21	Entropically Driven Photochemical Upconversion. Journal of Physical Chemistry A, 2011, 115, 1047-1053.	1.1	84
22	Increased upconversion performance for thin film solar cells: a trimolecular composition. Chemical Science, 2016, 7, 559-568.	3.7	78
23	An intermediate band dye-sensitised solar cell using tripletâ€“triplet annihilation. Physical Chemistry Chemical Physics, 2015, 17, 24826-24830.	1.3	77
24	Highly efficient photochemical upconversion in a quasi-solid organogel. Journal of Materials Chemistry C, 2015, 3, 616-622.	2.7	72
25	Oscillator strengths and radiative lifetimes for C2: Swan, Ballik-Ramsay, Phillips, and dÎg3â†cÎ£u+3 systems. Journal of Chemical Physics, 2007, 126, 084302.	1.2	71
26	Morphological Evolution and Singlet Fission in Aqueous Suspensions of TIPS-Pentacene Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 157-165.	1.5	71
27	Effect of gold nanoparticle shapes for phototherapy and drug delivery. Polymer Chemistry, 2016, 7, 2888-2903.	1.9	68
28	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. Joule, 2022, 6, 8-15.	11.7	66
29	Spectroscopic Observation of the Resonance-Stabilized 1-Phenylpropargyl Radical. Journal of the American Chemical Society, 2008, 130, 3137-3142.	6.6	63
30	Interplay between the hot phonon effect and intervalley scattering on the cooling rate of hot carriers in GaAs and InP. Progress in Photovoltaics: Research and Applications, 2012, 20, 82-92.	4.4	61
31	Singlet Oxygen Mediated Photochemical Upconversion of NIR Light. Journal of Physical Chemistry Letters, 2011, 2, 966-971.	2.1	55
32	Gas phase electronic spectra of the linear carbon chains HC2n+1H (n=3â€“6,9). Journal of Chemical Physics, 2003, 119, 814-819.	1.2	52
33	Two-Dimensional Fluorescence (Excitation/Emission) Spectroscopy as a Probe of Complex Chemical Environments. Journal of Physical Chemistry A, 2006, 110, 12355-12359.	1.1	52
34	Luminescent Hyperbranched Polymers: Combining Thiol-Yne Chemistry with Gold-Mediated Câ^'H Bond Activation. Organometallics, 2011, 30, 1315-1318.	1.1	47
35	Towards an aligned luminophore solar concentrator. Optics Express, 2010, 18, A161.	1.7	45
36	Large, Tunable, and Reversible pH Changes by Merocyanine Photoacids. Journal of the American Chemical Society, 2021, 143, 20758-20768.	6.6	43

#	Article	IF	Citations
37	Intramolecular Versus Intermolecular Triplet Fusion in Multichromophoric Photochemical Upconversion. Journal of Physical Chemistry C, 2019, 123, 20181-20187.	1.5	42
38	Plasmonic effects on CO2 reduction over bimetallic Ni-Au catalysts. Chemical Engineering Science, 2019, 194, 94-104.	1.9	42
39	Spectroscopic Identification of the Resonance-Stabilized cis- and trans-1-Vinylpropargyl Radicals. Journal of the American Chemical Society, 2009, 131, 13423-13429.	6.6	41
40	Characterization of the Ãƒ(1Aâ€³) state of HCF by laser induced fluorescence spectroscopy. Journal of Chemical Physics, 1999, 110, 11277-11285.	1.2	40
41	Challenges, progress and prospects in solid state triplet fusion upconversion. Journal of Materials Chemistry C, 2022, 10, 7783-7798.	2.7	40
42	Efficient up-conversion by triplet-triplet annihilation. Journal of Physics: Conference Series, 2009, 185, 012002.	0.3	39
43	Tunable Selfâ€Assembly of Triazoleâ€Linked Porphyrinâ€“Polymer Conjugates. Chemistry - A European Journal, 2013, 19, 12759-12770.	1.7	38
44	Photophysical properties of a new series of water soluble iridium bisterpyridine complexes functionalised at the 4â€² position. Dalton Transactions, 2011, 40, 2053.	1.6	37
45	Ab initio potential energy surface and vibrational frequencies of Ãƒ(1Aâ€³) HCF. Chemical Physics Letters, 1998, 292, 80-86.	1.2	36
46	The dÎg3-cÎ£u+3 band system of C2. Journal of Chemical Physics, 2007, 127, 214303.	1.2	36
47	Oscillator strengths of the Mulliken, Swan, Ballik-Ramsay, Phillips, and dÎg3â†cÎ£u+3 systems of C2 calculated by MRCI methods utilizing a biorthogonal transformation of CASSCF orbitals. Journal of Chemical Physics, 2007, 127, 234310.	1.2	36
48	The Optical Spectrum of a Large Isolated Polycyclic Aromatic Hydrocarbon: Hexa- peri -hexabenzocoronene, C ₄₂ H ₁₈. Astrophysical Journal, 2008, 681, L49-L51.	1.6	36
49	Spectroscopy of the Free Phenalenyl Radical. Journal of the American Chemical Society, 2011, 133, 14554-14557.	6.6	36
50	Harnessing Sunlight via Molecular Photon Upconversion. ACS Applied Materials & Interfaces, 2021, 13, 32601-32605.	4.0	33
51	Quantum chemical studies of the potential energy surfaces and vibrational frequencies of the??(1A?),ï¿½(3A?), andï¿½(1A?) states of CHCl and CFCl. International Journal of Quantum Chemistry, 2000, 76, 297-305.	1.0	31
52	Photochemical upconversion is suppressed by high concentrations of molecular sensitizers. Physical Chemistry Chemical Physics, 2018, 20, 19500-19506.	1.3	31
53	Quantum chemical study and experimental observation of a new band system of C2, eâ€‰Î3gâ^'câ€‰Î£3u+. Journal of Chemical Physics, 2009, 131, 044301.	1.2	30
54	Chemical bonding motifs from a tiling of the many-electron wavefunction. Physical Chemistry Chemical Physics, 2016, 18, 13385-13394.	1.3	29

#	Article	IF	Citations
55	The electronic spectroscopy of resonance-stabilised hydrocarbon radicals. International Reviews in Physical Chemistry, 2016, 35, 209-242.	0.9	29
56	Observation of the dÎg3â†¢Î£u+3 band system of C2. Journal of Chemical Physics, 2006, 125, 231101.	1.2	28
57	Multihydroxyâ€Anthraquinone Derivatives as Free Radical and Cationic Photoinitiators of Various Photopolymerizations under Green LED. Macromolecular Rapid Communications, 2018, 39, e1800172.	2.0	28
58	Laser-induced fluorescence and dispersed fluorescence spectroscopy of jet-cooled 1-phenylpropargyl radical. Journal of Chemical Physics, 2009, 130, 144313.	1.2	27
59	Energy transfer in pendant perylene diimide copolymers. Journal of Materials Chemistry C, 2016, 4, 8270-8275.	2.7	27
60	The spectroscopy and thermochemistry of phenylallyl radical chromophores. Chemical Science, 2011, 2, 1755.	3.7	26
61	InGaAs/GaAsP quantum wells for hot carrier solar cells. Proceedings of SPIE, 2012, , .	0.8	25
62	Energy Transfer between Perylene Diimide Based Ligands and Cesium Lead Bromide Perovskite Nanocrystals. Journal of Physical Chemistry C, 2020, 124, 3306-3313.	1.5	24
63	Singlet fission photovoltaics: Progress and promising pathways. Chemical Physics Reviews, 2022, 3, .	2.6	24
64	Identification of the Jet-Cooled 1-Indanyl Radical by Electronic Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 10279-10283.	1.1	23
65	Calculating curly arrows from ab initio wavefunctions. Nature Communications, 2018, 9, 1436.	5.8	23
66	The electronic structure of benzene from a tiling of the correlated 126-dimensional wavefunction. Nature Communications, 2020, 11, 1210.	5.8	23
67	The efficiency limit of solar cells with molecular absorbers: A master equation approach. Journal of Applied Physics, 2010, 108, 124506.	1.1	22
68	The 15Îg state of C2. Journal of Chemical Physics, 2011, 134, 224311.	1.2	22
69	Molecular Polarization Switching for Improved Light Coupling in Luminescent Solar Concentrators. Journal of Physical Chemistry Letters, 2013, 4, 2874-2879.	2.1	22
70	Extended hot carrier lifetimes observed in bulk In0.265Â±0.02Ga0.735N under high-density photoexcitation. Applied Physics Letters, 2016, 108, .	1.5	22
71	Singlet Fission in Concentrated TIPS-Pentacene Solutions: The Role of Excimers and Aggregates. Journal of the American Chemical Society, 2021, 143, 13749-13758.	6.6	22
72	Sequence Structure Emission in the Red Rectangle Bands. Astrophysical Journal, 2006, 639, 194-203.	1.6	21

#	Article	IF	Citations
73	Spectroscopy of the Aì*ƒ*(B21)-Xì*ƒ*(A11) transition of jet-cooled fluorobenzene: Laser-induced fluorescence, dispersed fluorescence, and pathological Fermi resonances. Journal of Chemical Physics, 2007, 127, 094303.	1.2	21
74	Micro-optical design of photochemical upconverters for thin-film solar cells. Journal of Photonics for Energy, 2013, 3, 034598.	0.8	21
75	Deuteration of Perylene Enhances Photochemical Upconversion Efficiency. Journal of Physical Chemistry Letters, 2015, 6, 3061-3066.	2.1	21
76	Spectral dependence of direct and trap-mediated recombination processes in lead halide perovskites using time resolved microwave conductivity. Physical Chemistry Chemical Physics, 2016, 18, 12043-12049.	1.3	21
77	ac Stark shifts in Rydberg NO levels induced by intense laser pulses. Physical Review A, 2000, 62, .	1.0	20
78	Optical detection of C9H3, C11H3, and C13H3 from a hydrocarbon discharge source. International Journal of Mass Spectrometry, 2003, 228, 647-654.	0.7	20
79	Resonance-Enhanced 2-Photon Ionization Scheme for C₂ through a Newly Identified Band System: 4³Î_gâ€“a³Î_u. Journal of Physical Chemistry A, 2015, 119, 12102-12108.	1.1	20
80	Excimer Formation in Carboxylic Acid-Functionalized Perylene Diimides Attached to Silicon Dioxide Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 3433-3440.	1.5	20
81	Development of tethered dual catalysts: synergy between photo- and transition metal catalysts for enhanced catalysis. Chemical Science, 2020, 11, 6256-6267.	3.7	20
82	Observation of the predissociated, quasilinear Bì*ƒ*(Aâ€²1) state of CHF by optical-optical double resonance. Journal of Chemical Physics, 2007, 126, 051105.	1.2	19
83	Hydroxyl Addition to Aromatic Alkenes: Resonance-Stabilized Radical Intermediates. Journal of Physical Chemistry A, 2012, 116, 7906-7915.	1.1	18
84	Action spectrum experiment for the measurement of incoherent photon upconversion efficiency under sun-like excitation. RSC Advances, 2014, 4, 52749-52756.	1.7	18
85	Charting a course for chemistry. Nature Chemistry, 2019, 11, 286-294.	6.6	18
86	Femtosecond fluorescence depletion spectroscopy of NO2 multiphoton dissociation dynamics. Journal of Chemical Physics, 1999, 111, 7183-7186.	1.2	17
87	Ultrafast Electron and Phonon Response of Oriented and Diameter-Controlled Germanium Nanowire Arrays. Nano Letters, 2014, 14, 3427-3431.	4.5	17
88	Excitation and Emission Spectra of Jet-Cooled Naphthylmethyl Radicals. Journal of Physical Chemistry A, 2011, 115, 7959-7965.	1.1	16
89	The structure and luminescence properties of europium(iii) triflate doped self-assembled pyromellitamide gels. New Journal of Chemistry, 2011, 35, 1466.	1.4	16
90	Hot carrier dynamics in InGaAs/GaAsP quantum well solar cells. , 2011, , .		16

#	Article	IF	Citations
91	Kinetic insight into bimolecular upconversion: experiment and simulation. RSC Advances, 2014, 4, 8059-8063.	1.7	16
92	An add-on organic green-to-blue photon-upconversion layer for organic light emitting diodes. Journal of Materials Chemistry C, 2018, 6, 3845-3848.	2.7	16
93	Photodissociation of dicarbon: How nature breaks an unusual multiple bond. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	16
94	Towards bulk behaviour of long hydrogenated carbon chains?. Physical Chemistry Chemical Physics, 2003, 5, 4772-4775.	1.3	15
95	Structure of the Naphthalene Dimer from Rare Gas Tagging. Journal of Physical Chemistry A, 2007, 111, 4211-4214.	1.1	15
96	Aliphatic hydrocarbon content of interstellar dust. Monthly Notices of the Royal Astronomical Society, 2018, 479, 4336-4344.	1.6	15
97	The Spectroscopy of C₂: A Cosmic Beacon. Accounts of Chemical Research, 2021, 54, 481-489.	7.6	15
98	Gas phase spectra of all-benzenoid polycyclic aromatic hydrocarbons: Triphenylene. Journal of Chemical Physics, 2007, 126, 084304.	1.2	14
99	Triple-Resonance Spectroscopy Reveals the Excitation Spectrum of Very Cold, Isomer-Specific Protonated Naphthalene. Journal of Physical Chemistry Letters, 2013, 4, 3728-3732.	2.1	14
100	Limitations and design considerations for donorâ€“acceptor systems in luminescent solar concentrators: the effect of coupling-induced red-edge absorption. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 377	1.0	14
101	TIPS-anthracene: a singlet fission or triplet fusion material?. Journal of Photonics for Energy, 2018, 8, 1.	0.8	14
102	Sulfur terminated nanowires in the gas phase: laser spectroscopy and mass spectrometry. International Journal of Mass Spectrometry, 2004, 233, 131-136.	0.7	13
103	Unraveling the Ãƒ¹B₁ â†Xìƒ¹A₁ Spectrum of CCl₂: The Rennerâ€“Teller Effect, Barrier to Linearity, and Vibrational Analysis Using an Effective Polyad Hamiltonian. Journal of Physical Chemistry A, 2008, 112, 11355-11362.	1.1	13
104	Electronic Spectroscopy of PAHs. EAS Publications Series, 2011, 46, 355-371.	0.3	13
105	The ionization energy of C2. Journal of Chemical Physics, 2016, 144, 144305.	1.2	13
106	Interconversion of Methyltropyl and Xylyl Radicals: A Pathway Unavailable to the Benzylâ€“Tropyl Rearrangement. Journal of Physical Chemistry A, 2018, 122, 1261-1269.	1.1	13
107	Measured power conversion efficiencies of bifacial luminescent solar concentrator photovoltaic devices of the mosaic series. Progress in Photovoltaics: Research and Applications, 2022, 30, 726-739.	4.4	13
108	Current assessment of the Red Rectangle band problem. Astrophysics and Space Science, 2009, 323, 337-344.	0.5	12

#	Article	IF	Citations
109	Spectroscopy and thermochemistry of a jet-cooled open-shell polyene: 1,4-pentadienyl radical. Journal of Chemical Physics, 2011, 135, 124306.	1.2	12
110	Nanostructured upconverters for improved solar cell performance. Proceedings of SPIE, 2013, , .	0.8	12
111	First observation of the 3Îg3 state of C2: Born-Oppenheimer breakdown. Journal of Chemical Physics, 2017, 146, 134306.	1.2	12
112	The eÎg3 state of C2: A pathway to dissociation. Journal of Chemical Physics, 2017, 147, 024305.	1.2	12
113	Singlet fission and tandem solar cells reduce thermal degradation and enhance lifespan. Progress in Photovoltaics: Research and Applications, 2021, 29, 899-906.	4.4	12
114	The Optical Spectroscopy of Extraterrestrial Molecules. Australian Journal of Chemistry, 2005, 58, 69.	0.5	12
115	Velocity Map Imaging Spectroscopy of the Dipole-Bound State of CH₂CN^{â€“}: Implications for the Diffuse Interstellar Bands. Journal of the American Chemical Society, 2021, 143, 18684-18692.	6.6	12
116	New Laboratory Data on a Molecular Band at 4429 A. Astrophysical Journal, 2004, 616, 1301-1310.	1.6	11
117	On the Electronic Properties of Dehydrogenated Polycyclic Aromatic Hydrocarbons. Journal of Physical Chemistry A, 2006, 110, 6173-6177.	1.1	11
118	Ionization Energies of Three Resonance-Stabilized Radicals: Cyclohexadienyl (d_n,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 2014, 118, 10252-10258.	1.1	11
119	Luminescent solar concentrators utilizing stimulated emission. Optics Express, 2016, 24, A497.	1.7	11
120	Competing Energy Transfer Pathways in a Five-Chromophore Perylene Array. Journal of Physical Chemistry C, 2018, 122, 13937-13943.	1.5	11
121	Organic polariton lasing with molecularly isolated perylene diimides. Applied Physics Letters, 2020, 117, .	1.5	11
122	All-optical augmentation of solar cells using a combination of up- and downconversion. Journal of Photonics for Energy, 2018, 8, 1.	0.8	11
123	Optical control of electronic state populations via the dynamic Stark effect. Chemical Physics, 2001, 267, 115-129.	0.9	10
124	A theoretical treatment of the absorption spectra of all-benzenoid hydrocarbons. Monthly Notices of the Royal Astronomical Society: Letters, 2006, 371, L41-L44.	1.2	10
125	Experimental and theoretical investigation of the dispersed fluorescence spectroscopy of HC4S. Journal of Chemical Physics, 2006, 124, 194310.	1.2	10
126	The Câ‹¯H Stretch Intensities of Polycyclic Aromatic Hydrocarbon Cations. Origins and Astrophysical Implications. Journal of Physical Chemistry A, 2009, 113, 3535-3541.	1.1	10

#	Article	IF	Citations
127	H and D Attachment to Naphthalene: Spectra and Thermochemistry of Cold Gas-Phase 1-C₁₀H₉ and 1-C₁₀H₈D Radicals and Cations. Journal of Physical Chemistry A, 2015, 119, 3225-3232.	1.1	10
128	Ultrafast Carrier Dynamics of a Photo-Excited Germanium Nanowireâ€“Air Metamaterial. ACS Photonics, 2015, 2, 1091-1098.	3.2	10
129	Electronic transitions of molecules: vibrating Lewis structures. Chemical Science, 2019, 10, 6809-6814.	3.7	10
130	High efficiency deep red to yellow photochemical upconversion under solar irradiance. Energy and Environmental Science, 0, , .	15.6	10
131	Methyl Substitution in Hydrocarbon Discharge Chemistry:â€‰ Diagnosis by Laser Spectroscopy. Journal of Physical Chemistry A, 2003, 107, 6550-6553.	1.1	9
132	Localized electrons from diffusion Monte Carlo. Computational and Theoretical Chemistry, 2004, 672, 191-200.	1.5	9
133	Rotationally-resolved excitation spectrum of the jet-cooled cyclohexadienyl radical. Chemical Physics Letters, 2007, 449, 57-62.	1.2	9
134	Synthesis and Ultrafast Excited-State Dynamics of Zinc and Palladium Triply Fused Diporphyrins. Journal of Physical Chemistry A, 2012, 116, 7898-7905.	1.1	9
135	Excitation Spectra of Large Jet-Cooled Polycyclic Aromatic Hydrocarbon Radicals: 9-Anthracenylmethyl (C₁₅H₁₁) and 1-Pyrenylmethyl (C₁₇H₁₁). Journal of Physical Chemistry A, 2013, 117, 13899-13907.	1.1	9
136	Synthesis and Luminescence Properties of Iridium(III) Azide- and Triazole-Bisterpyridine Complexes. Molecules, 2013, 18, 8959-8975.	1.7	9
137	Double-resonance spectroscopy of radicals: higher electronic excited states of 1- and 2-naphthylmethyl, 1-phenylpropargyl and 9-anthracenylmethyl. Molecular Physics, 2015, 113, 2138-2147.	0.8	9
138	Hydrogen-atom attack on phenol and toluene is ortho-directed. Physical Chemistry Chemical Physics, 2016, 18, 8625-8636.	1.3	9
139	On the electronic spectroscopy of closed-shell cations derived from resonance-stabilized radicals: Insights from theory and Franck-Condon analysis. Astronomy and Astrophysics, 2012, 541, A8.	2.1	8
140	Using Atomic Orbitals and Kinesthetic Learning To Authentically Derive Molecular Stretching Vibrations. Journal of Chemical Education, 2013, 90, 889-893.	1.1	8
141	Atmospheric oxidation intermediates: Laser spectroscopy of resonance-stabilized radicals from p-cymene. Chemical Physics Letters, 2015, 620, 129-133.	1.2	8
142	Simulations of Luminescent Solar Concentrator Bifacial Photovoltaic Mosaic Devices Containing Four Different Organic Luminophores. IEEE Journal of Photovoltaics, 2022, 12, 771-777.	1.5	8
143	PAH Growth in Flames and Space: Formation of the Phenalenyl Radical. Journal of Physical Chemistry A, 2022, 126, 101-108.	1.1	8
144	Diabatic Valence-Hole States in the C₂ Molecule: â€œPutting Humpty Dumpty Together Againâ€• Journal of Physical Chemistry A, 2022, 126, 3090-3100.	1.1	8

#	Article	IF	Citations
145	Time-resolved spectroscopy of the dynamic Stark effect. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 1125-1140.	0.6	7
146	Excitation Spectra of the Jet-Cooled 4-Phenylbenzyl and 4-(4â€²-Methylphenyl)benzyl Radicals. Journal of Physical Chemistry A, 2012, 116, 10780-10785.	1.1	7
147	Optical gain characterization of Perylene Red-doped PMMA for different pump configurations. Applied Optics, 2016, 55, 178.	2.1	7
148	Hot Carrier Cooling in In_{0.17}Ga_{0.83}As/GaAs_{0.80}P_{0.20}Multiple Quantum Wells: The Effect of Barrier Thickness. IEEE Journal of Photovoltaics, 2016, 6, 166-171.	1.5	7
149	Higher vibrational levels of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si7.gif" overflow="scroll"><mml:mrow><mml:mi>D</mml:mi><mml:msup><mml:mrow /><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msup><mml:msubsup><mml:mrow><mml:mi mathvariant="normal">Î£</mml:mi></mml:mrow><mml:mrow><mml:mi>u</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:m state of dicarbon: New Mulliken bands. Journal of Molecular Spectroscopy, 2018, 344, 1-5.	0.4	7
150	Optimization of energy transfer in a polymer composite with perylene chromophores. Journal of Materials Chemistry C, 2018, 6, 7333-7342.	2.7	7
151	A Marcus-Hush perspective on adiabatic singlet fission. Journal of Chemical Physics, 2019, 151, .	1.2	7
152	First-Principles Calculation of Triplet Exciton Diffusion in Crystalline Poly(p-phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	1.5	7
153	Gas phase electronic spectrum of the nitrogen terminated nanowire NC16N. Chemical Physics Letters, 2004, 392, 225-228.	1.2	6
154	Visible Photodissociation Spectra of the 1- and 2-Methylnaphthalene Cations: Laser Spectroscopy and Theoretical Simulations. Journal of Physical Chemistry A, 2013, 117, 13664-13672.	1.1	6
155	Hydrogen-adduction to open-shell graphene fragments: spectroscopy, thermochemistry and astrochemistry. Chemical Science, 2017, 8, 1186-1194.	3.7	6
156	Visualizing the 30-Dimensional Antisymmetrized Electronic Structure of Water: The Emergence of Lone Pairs. Journal of Physical Chemistry Letters, 2020, 11, 735-739.	2.1	6
157	Intense-field modulation of NO2 multiphoton dissociation dynamics. Journal of Chemical Physics, 2004, 121, 4133-4142.	1.2	5
158	Laser-Induced Fluorescence Spectrum of 3-Vinyl-1H-indene. Journal of Physical Chemistry A, 2007, 111, 3306-3312.	1.1	5
159	An experimental and theoretical study on vibrational structure in the BÌƒâ€“XÌƒ transition of CH[sub 2]CHS. Journal of Chemical Physics, 2009, 131, 104310.	1.2	5
160	Molecular approaches to third generation photovoltaics: photochemical up-conversion. , 2010, , .		5
161	Photochemical Upconversion Theory: Importance of Triplet Energy Levels and Triplet Quenching. Physical Review Applied, 2019, 12, .	1.5	5
162	Quantum-Induced Symmetry Breaking in the Deuterated Dihydroanthracenyl Radical. Journal of Physical Chemistry A, 2019, 123, 6711-6719.	1.1	5

#	Article	IF	Citations
163	A method for mapping the aliphatic hydrocarbon content of interstellar dust towards the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1109-1119.	1.6	5
164	Electronic photodissociation spectra of the Arnâ€“C4H2+ (n=1â€“4) weakly bound cationic complexes. Journal of Molecular Spectroscopy, 2003, 222, 86-92.	0.4	4
165	Upconversion. , 2012, , 533-548.		4
166	Role of Surface Capping Molecule Polarity on the Optical Properties of Solution Synthesized Germanium Nanocrystals. Langmuir, 2017, 33, 8790-8798.	1.6	4
167	Inter-ligand energy transfer in dye chromophores attached to high bandgap SiO₂ nanoparticles. Chemical Communications, 2019, 55, 8804-8807.	2.2	4
168	Electronic Wavefunction Tiles. Australian Journal of Chemistry, 2020, 73, 757.	0.5	4
169	Time-resolved Stark effect in rapidly varying fields. Applied Physics B: Lasers and Optics, 2002, 74, 577-581.	1.1	3
170	Integrating a Triplet-triplet Annihilation Up-conversion System to Enhance Dye-sensitized Solar Cell Response to Sub-bandgap Light. Journal of Visualized Experiments, 2014, , 52028.	0.2	3
171	Photochemical upconversion of light for renewable energy and more. Proceedings of SPIE, 2015, , .	0.8	3
172	Jet-Cooled Spectroscopy of ortho-Hydroxycyclohexadienyl Radicals. Journal of Physical Chemistry A, 2018, 122, 8886-8897.	1.1	3
173	Singlet and Triplet Exciton Dynamics of Violanthrone. Journal of Physical Chemistry C, 2021, 125, 22464-22471.	1.5	3
174	The Hitchhikerâ€™s Guide to the Wave Function. Journal of Physical Chemistry A, 2022, 126, 979-991.	1.1	3
175	Mapping the aliphatic hydrocarbon content of interstellar dust in the Galactic plane. Monthly Notices of the Royal Astronomical Society, 2022, 515, 4201-4216.	1.6	3
176	E-field dependence of the ac Stark effect probed by a bichromatic laser field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 2357-2367.	0.6	2
177	Gas-phase spectroscopy of the 2â€‰Î£3â^’â^’XÌƒâ€‰Î£3â^’ electronic transition of CCS. Journal of Chemical Physics, 2009, 130, 014302.	1.2	2
178	Improving the light-harvesting of second generation solar cells with photochemical upconversion. Proceedings of SPIE, 2012, , .	0.8	2
179	An agnostic approach. Nature Nanotechnology, 2013, 8, 886-887.	15.6	2
180	Laboratory Spectroscopy of PAHs. Proceedings of the International Astronomical Union, 2013, 9, 247-257.	0.0	2

#	Article	IF	Citations
181	Comment on â€œTremendously enhanced photocurrent enabled by tripletâ€“triplet annihilation up-conversion for high-performance perovskite solar cellsâ€•by W. Sheng, J. Yang, X. Li, G. Liu, Z. Lin, J. Long, S. Xiao, L. Tan and Y. Chen, Energy Environ. Sci., 2021, 14, 3532. Energy and Environmental Science, 2021, 14, 6050-6052.	15.6	2
182	Optical analysis of an integrated solar cell and a photon up converter, providing guidance for future device engineering efforts. Journal of Applied Physics, 2021, 130, 194501.	1.1	2
183	Two-dimensional fluorescence spectroscopy for the identification of discharge intermediates. Journal of Physics: Conference Series, 2009, 185, 012037.	0.3	1
184	Two-photon triplet-triplet annihilation upconversion for photovoltaics. , 2011, , .		1
185	Downconversion. , 2012, , 549-561.		1
186	Aliphatic hydrocarbon content of interstellar dust. Proceedings of the International Astronomical Union, 2019, 15, 241-244.	0.0	1
187	An All-Photonic Molecular Amplifier and Binary Flip-flop. Journal of Physical Chemistry Letters, 2021, 12, 1236-1243.	2.1	1
188	Improved optical confinement in ambipolar field-effect transistors toward electrical injection organic lasers. Applied Physics Letters, 2021, 119, 163303.	1.5	1
189	The dynamics of CO production from the photolysis of acetone across the whole S1 â†•S0 absorption spectrum: Roaming and triple fragmentation pathways.. Journal of Chemical Physics, 2022, 156, 094303.	1.2	1
190	ac-Stark autocorrelator for ultrafast laser pulses. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1930.	0.9	0
191	The Optical Spectroscopy of Extraterrestrial Molecules. ChemInform, 2005, 36, no.	0.1	0
192	High-concentration Photochemical Upconverters. , 2014, , .		0
193	Luminescent solar concentrator improvement by stimulated emission. , 2015, , .		0
194	Electronic spectrum of 9-methylanthracenium radical cation. Journal of Chemical Physics, 2016, 144, 154303.	1.2	0
195	Optically Coupled Upconversion Solar Cells. , 2022, , 197-207.		0
196	Photochemical Upconversion Applied to Organic and Thin Film Silicon Solar Cells. , 2012, , .		0
197	Special Section Guest Editorial: Spectral Management for Renewable Energy Conversion. Journal of Photonics for Energy, 2018, 8, 1.	0.8	0
198	Oxygen Enhanced Upconversion of Near Infrared Light Beyond the Band Gap of Silicon. , 0, , .		0