

Michael Towrie

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202
papers

7,130
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45
h-index

72
g-index

211
ext. papers

7,689
ext. citations

6.7
avg, IF

5.43
L-index

#	Paper	IF	Citations
202	Tryptophan-accelerated electron flow through proteins. <i>Science</i> , 2008 , 320, 1760-2	33.3	354
201	Ultrafast Measurements of Excited State Intramolecular Proton Transfer (ESIPT) in Room Temperature Solutions of 3-Hydroxyflavone and Derivatives. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 3709-3718	2.8	206
200	Efficient Rejection of Fluorescence from Raman Spectra Using Picosecond Kerr Gating. <i>Applied Spectroscopy</i> , 1999 , 53, 1485-1489	3.1	187
199	Observation of excited-state proton transfer in green fluorescent protein using ultrafast vibrational spectroscopy. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2864-5	16.4	174
198	Ultrafast excited-state dynamics of rhenium(I) photosensitizers [Re(Cl)(CO) ₃ (N,N)] and [Re(imidazole)(CO) ₃ (N,N)] ⁺ : diimine effects. <i>Inorganic Chemistry</i> , 2011 , 50, 2932-43	5.1	155
197	ULTRA: A Unique Instrument for Time-Resolved Spectroscopy. <i>Applied Spectroscopy</i> , 2010 , 64, 1311-9	3.1	154
196	Development of a broadband picosecond infrared spectrometer and its incorporation into an existing ultrafast time-resolved resonance Raman, UV/visible, and fluorescence spectroscopic apparatus. <i>Applied Spectroscopy</i> , 2003 , 57, 367-80	3.1	139
195	Fluorescence suppression in resonance Raman spectroscopy using a high-performance picosecond Kerr gate. <i>Journal of Raman Spectroscopy</i> , 2001 , 32, 983-988	2.3	137
194	Direct observation of ultrafast long-range charge separation at polymer-fullerene heterojunctions. <i>Nature Communications</i> , 2014 , 5, 4288	17.4	133
193	Toward control of electron transfer in donor-acceptor molecules by bond-specific infrared excitation. <i>Science</i> , 2014 , 346, 1492-5	33.3	132
192	A combined theoretical and experimental study on the role of spin states in the chemistry of Fe(CO) ₅ photoproducts. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3583-92	16.4	112
191	Ultrafast charge separation in a photoreactive rhenium-appended porphyrin assembly monitored by picosecond transient infrared spectroscopy. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4253-66	16.4	104
190	On the mechanism of vibrational control of light-induced charge transfer in donor-bridge-acceptor assemblies. <i>Nature Chemistry</i> , 2015 , 7, 689-95	17.6	93
189	Photooxidation of guanine by a ruthenium dipyridophenazine complex intercalated in a double-stranded polynucleotide monitored directly by picosecond visible and infrared transient absorption spectroscopy. <i>Chemistry - A European Journal</i> , 2008 , 14, 369-75	4.8	92
188	Picosecond Relaxation of 3MLCT Excited States of [Re(Etpy)(CO) ₃ (dmb)] ⁺ and [Re(Cl)(CO) ₃ (bpy)] ⁺ as Revealed by Time-Resolved Resonance Raman, UV-vis, and IR Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 2363-2369	2.8	92
187	The photophysics of fac-[Re(CO) ₃ (dppz)(py)] ⁺ in CH ₃ CN: a comparative picosecond flash photolysis, transient infrared, transient resonance Raman and density functional theoretical study. <i>Photochemical and Photobiological Sciences</i> , 2003 , 2, 542-54	4.2	92
186	Fluorescence background suppression in Raman spectroscopy using combined Kerr gated and shifted excitation Raman difference techniques. <i>Journal of Raman Spectroscopy</i> , 2002 , 33, 238-242	2.3	91

185	Formation of the early photoproduct lumi-R of cyanobacterial phytochrome cph1 observed by ultrafast mid-infrared spectroscopy. <i>Journal of the American Chemical Society</i> , 2007 , 129, 126-32	16.4	79
184	Tracking DNA Excited States by Picosecond-Time-Resolved Infrared Spectroscopy: Signature Band for a Charge-Transfer Excited State in Stacked Adenine-Thymine Systems. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2739-2744	6.4	68
183	Using picosecond and nanosecond time-resolved infrared spectroscopy for the investigation of excited states and reaction intermediates of inorganic systems. <i>Dalton Transactions</i> , 2003 , 3996	4.3	68
182	Vibrationally quantum-state-specific reaction dynamics of H atom abstraction by CN radical in solution. <i>Science</i> , 2011 , 331, 1423-6	33.3	66
181	Excited-state dynamics of structurally characterized [Re(CO) ₃ (phen)(HisX)] ⁺ (X = 83, 109) <i>Pseudomonas aeruginosa</i> azurins in aqueous solution. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4365-70	16.4	66
180	Ligand-to-diimine/metal-to-diimine charge-transfer excited states of [Re(NCS)(CO) ₃ (α-diimine)] (α-diimine = 2,2′-bipyridine, di- <i>i</i> -Pr-N,N-1,4-diazabutadiene). A spectroscopic and computational study. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 5016-25	2.8	64
179	Tunable picosecond optical parametric generator-amplifier system for time resolved Raman spectroscopy. <i>Measurement Science and Technology</i> , 1998 , 9, 816-823	2	64
178	Comparing molecular photofragmentation dynamics in the gas and liquid phases. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6567-82	3.6	62
177	Time-resolved multiple probe spectroscopy. <i>Review of Scientific Instruments</i> , 2012 , 83, 103107	1.7	61
176	New members of the [Ru(diimine)(CN) ₄](2-) family: structural, electrochemical and photophysical properties. <i>Dalton Transactions</i> , 2006 , 39-50	4.3	61
175	Vibrational mode-selective effects in the picosecond time-resolved resonance Raman spectrum of singlet excited trans-stilbene. <i>Chemical Physics Letters</i> , 1993 , 208, 471-478	2.5	61
174	Photophysics of singlet and triplet intraligand excited states in [ReCl(CO) ₃ (1-(2-pyridyl)-imidazo[1,5- <i>b</i>]pyridine)] complexes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5963-73	16.4	60
173	ps-TRIR covers all the bases—recent advances in the use of transient IR for the detection of short-lived species in nucleic acids. <i>Analyst, The</i> , 2009 , 134, 1265-73	5	60
172	Monitoring the direct and indirect damage of DNA bases and polynucleotides by using time-resolved infrared spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 2150-3	11.5	60
171	Excited state dynamics of a Pt(II) diimine complex bearing a naphthalene-diimide electron acceptor. <i>Inorganic Chemistry</i> , 2008 , 47, 10432-45	5.1	58
170	Unraveling the photochemistry of Fe(CO) ₅ in solution: observation of Fe(CO) ₃ and the conversion between 3Fe(CO) ₄ and 1Fe(CO) ₄ (Solvent). <i>Journal of the American Chemical Society</i> , 2004 , 126, 10713-20	16.4	58
169	Structure and ultrafast dynamics of the charge-transfer excited state and redox activity of the ground state of mono- and binuclear platinum(II) diimine catecholate and bis-catecholate complexes: a transient absorption, TRIR, DFT, and electrochemical study. <i>Inorganic Chemistry</i> , 2010 , 49, 10041-56	5.1	57
168	Photophysical properties of platinum(II)-acetylide complexes: the effect of a strongly electron-accepting diimine ligand on excited-state structure. <i>Inorganic Chemistry</i> , 2008 , 47, 8242-57	5.1	57

167	Monitoring one-electron photo-oxidation of guanine in DNA crystals using ultrafast infrared spectroscopy. <i>Nature Chemistry</i> , 2015 , 7, 961-7	17.6	55
166	Probing the solvent dependent photophysics of fac-[Re(CO) ₃ (dppz-X ₂)Cl] (dppz-X ₂ = 11,12-X ₂ -dipyrido[3,2-a:2',1'-b]phenazine); X = CH ₃ , H, F, Cl, CF ₃). <i>Inorganic Chemistry</i> , 2008 , 47, 9857-69	5.1	53
165	Monitoring the effect of ultrafast deactivation of the electronic excited states of DNA bases and polynucleotides following 267 nm laser excitation using picosecond time-resolved infrared spectroscopy. <i>Chemical Communications</i> , 2005 , 1182-4	5.8	52
164	Relaxation dynamics of Pseudomonas aeruginosa Re(I)(CO) ₃ (alpha-diimine)(HisX) ⁺ (X = 83, 107, 109, 124, 126)Cu(II) azurins. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11788-800	16.4	51
163	Excited states of nitro-polypyridine metal complexes and their ultrafast decay. Time-resolved IR Absorption, spectroelectrochemistry, and TD-DFT calculations of fac-[Re(II)(CO) ₃ (5-nitro-1,10-phenanthroline)]. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 6147-53	2.8	51
162	Early photochemical dynamics of organometallic compounds studied by ultrafast time-resolved spectroscopic techniques. <i>Dalton Transactions RSC</i> , 2002 , 701-712		51
161	A 100 kHz Time-Resolved Multiple-Probe Femtosecond to Second Infrared Absorption Spectrometer. <i>Applied Spectroscopy</i> , 2016 , 70, 645-53	3.1	50
160	Charge photoinjection in intercalated and covalently bound [Re(CO) ₃ (dppz)(py)] ⁺ -DNA constructs monitored by time-resolved visible and infrared spectroscopy. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13718-30	16.4	49
159	Mechanism and Dynamics of Interligand Electron Transfer in fac-[Re(MQ ⁺)(CO) ₃ (dmb)] ²⁺ . An Ultrafast Time-Resolved Visible and IR Absorption, Resonance Raman, and Emission Study (dmb = 4,4'-Dimethyl-2,2'-bipyridine, MQ ⁺ = N-Methyl-4,4'-bipyridinium). <i>Journal of Physical Chemistry A</i> , 2004 , 108, 556-567	2.8	49
158	Phototriggering electron flow through Re(I)-modified Pseudomonas aeruginosa azurins. <i>Chemistry - A European Journal</i> , 2011 , 17, 5350-61	4.8	48
157	Red-Absorbing Cationic Acceptor Dyes for Photocathodes in Tandem Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16536-16546	3.8	45
156	Determination of the photolysis products of [FeFe]hydrogenase enzyme model systems using ultrafast multidimensional infrared spectroscopy. <i>Inorganic Chemistry</i> , 2010 , 49, 9563-73	5.1	45
155	Infrared characterization of the guanine radical cation: finger printing DNA damage. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 3660-7	3.4	45
154	Directing the path of light-induced electron transfer at a molecular fork using vibrational excitation. <i>Nature Chemistry</i> , 2017 , 9, 1099-1104	17.6	43
153	Direct observation by time-resolved infrared spectroscopy of the bright and the dark excited states of the [Ru(phen)(dppz)] light-switch compound in solution and when bound to DNA. <i>Chemical Science</i> , 2016 , 7, 3075-3084	9.4	43
152	Photoexcitation of the blue light using FAD photoreceptor AppA results in ultrafast changes to the protein matrix. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16893-900	16.4	43
151	Picosecond transient infrared study of the ultrafast deactivation processes of electronically excited B-DNA and Z-DNA forms of [poly(dG-dC)] ₂ . <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 123-7	16.4	43
150	Electron-transfer acceleration investigated by time resolved infrared spectroscopy. <i>Accounts of Chemical Research</i> , 2015 , 48, 868-76	24.3	42

149	Proteins in action: femtosecond to millisecond structural dynamics of a photoactive flavoprotein. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16168-74	16.4	42
148	Rhenium-to-benzoylpyridine and rhenium-to-bipyridine MLCT excited states of fac-[Re(Cl)(4-benzoylpyridine)(2)(CO)(3)] and fac-[Re(4-benzoylpyridine)(CO)(3)(bpy)](+): a time-resolved spectroscopic and spectroelectrochemical study. <i>Inorganic Chemistry</i> , 2004 , 43, 4523-30	5.1	42
147	Reaction dynamics. Vibrational relaxation and microsolvation of DF after F-atom reactions in polar solvents. <i>Science</i> , 2015 , 347, 530-3	33.3	41
146	A comparative picosecond transient infrared study of 1-methylcytosine and 5MdCMP that sheds further light on the excited states of cytosine derivatives. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4212-5	16.4	39
145	Excited-state dynamics of fac-[Re(L)(CO)3(phen)]+ and fac-[Re(L)(CO)3(5-NO2-phen)]+ (L = imidazole, 4-ethylpyridine; phen = 1,10-phenanthroline) complexes. <i>Inorganic Chemistry</i> , 2004 , 43, 4994-5002	5.1	39
144	Tryptophan-accelerated electron flow across a protein-protein interface. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15515-25	16.4	38
143	Ultrafast IR spectroscopy of the short-lived transients formed by UV excitation of cytosine derivatives. <i>Chemical Communications</i> , 2007 , 2130-2	5.8	38
142	Structure and vibrational dynamics of model compounds of the [FeFe]-hydrogenase enzyme system via ultrafast two-dimensional infrared spectroscopy. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10023-32	3.4	37
141	Direct observation of competitive ultrafast CO dissociation and relaxation of an MLCT excited state: picosecond time-resolved infrared spectroscopic study of [Cr(CO)(4)(2,2'-bipyridine)]. <i>Inorganic Chemistry</i> , 2002 , 41, 4318-23	5.1	37
140	The anti-Stokes resonance Raman spectrum of photoexcited S1 trans-stilbene. <i>Chemical Physics Letters</i> , 1995 , 237, 373-379	2.5	36
139	Probing and Exploiting the Interplay between Nuclear and Electronic Motion in Charge Transfer Processes. <i>Accounts of Chemical Research</i> , 2015 , 48, 1131-9	24.3	35
138	Steady-state and pseudo-steady-state photocystallographic studies on linkage isomers of [Ni(Et4dien)(η -O,ON)(η -NO2)]: identification of a new linkage isomer. <i>Chemistry - A European Journal</i> , 2014 , 20, 3128-34	4.8	35
137	Balance between ultrafast parallel reactions in the green fluorescent protein has a structural origin. <i>Biophysical Journal</i> , 2008 , 95, 1902-12	2.9	35
136	Photoinduced intramolecular tryptophan oxidation and excited-state behavior of [Re(L-AA)(CO)3(Ediimine)](+) (L = pyridine or imidazole, AA = tryptophan, tyrosine, phenylalanine). <i>Inorganic Chemistry</i> , 2011 , 50, 6122-34	5.1	34
135	Photoinduced energy transfer in a conformationally flexible Re(I)/Ru(II) dyad probed by time-resolved infrared spectroscopy: effects of conformation and spatial localization of excited states. <i>Inorganic Chemistry</i> , 2008 , 47, 5071-8	5.1	34
134	Ultrafast excited state dynamics of Pt(II) chromophores bearing multiple infrared absorbers. <i>Inorganic Chemistry</i> , 2008 , 47, 6974-83	5.1	34
133	A high-sensitivity femtosecond to microsecond time-resolved infrared vibrational spectrometer. <i>Applied Spectroscopy</i> , 2005 , 59, 467-73	3.1	34
132	A 100 kHz Pulse Shaping 2D-IR Spectrometer Based on Dual Yb:KGW Amplifiers. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 780-787	2.8	33

- 131 Electron transfer dynamics and excited state branching in a charge-transfer platinum(II) donor-bridge-acceptor assembly. *Dalton Transactions*, **2014**, 43, 17677-93 4.3 33
- 130 Dynamics of ground and excited state vibrational relaxation and energy transfer in transition metal carbonyls. *Journal of Physical Chemistry B*, **2014**, 118, 11781-91 3.4 33
- 129 Excited-state charge separation in the photochemical mechanism of the light-driven enzyme protochlorophyllide oxidoreductase. *Angewandte Chemie - International Edition*, **2015**, 54, 1512-5 16.4 33
- 128 Ultrafast infrared spectroscopy of an isotope-labeled photoactivatable flavoprotein. *Biochemistry*, **2011**, 50, 1321-8 3.2 33
- 127 Unusually Slow Photodissociation of CO from $(\beta\text{-C}_6\text{H}_6)\text{Cr}(\text{CO})_3$ (M = Cr or Mo): A Time-Resolved Infrared, Matrix Isolation, and DFT Investigation. *Organometallics*, **2009**, 28, 1461-1468 3.8 33
- 126 Electronic structure and excited states of rhenium(I) amido and phosphido carbonyl-bipyridine complexes studied by picosecond time-resolved IR spectroscopy and DFT calculations. *Inorganic Chemistry*, **2006**, 45, 9789-97 5.1 33
- 125 Photoaquation Mechanism of Hexacyanoferrate(II) Ions: Ultrafast 2D UV and Transient Visible and IR Spectroscopies. *Journal of the American Chemical Society*, **2017**, 139, 7335-7347 16.4 32
- 124 Understanding the factors affecting the activation of alkane by $\text{Cp}^*\text{Rh}(\text{CO})_2$ ($\text{Cp}^* = \text{Cp}$ or Cp^*). *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 20178-83 11.5 32
- 123 Luminescence and time-resolved infrared study of dyads containing (diimine)Ru(4,4'-diethylamido-2,2'-bipyridine)₂ and (diimine)Ru(CN)₄ moieties: solvent-induced reversal of the direction of photoinduced energy-transfer. *Inorganic Chemistry*, **2009**, 48, 8759-70 5.1 32
- 122 BLUF domain function does not require a metastable radical intermediate state. *Journal of the American Chemical Society*, **2014**, 136, 4605-15 16.4 31
- 121 Ultrafast infrared spectral fingerprints of vitamin B12 and related cobalamins. *Journal of Physical Chemistry A*, **2012**, 116, 5586-94 2.8 31
- 120 Two independently tunable and synchronised femtosecond pulses generated in the visible at the repetition rate 40 kHz using optical parametric amplifiers. *Optics Communications*, **1996**, 127, 307-312 2 31
- 119 Solvent dependent photophysics of fac-[Re(CO)(3)(11,12-X(2)dppz)(py)](+) (X = H, F or Me). *Photochemical and Photobiological Sciences*, **2007**, 6, 741-8 4.2 30
- 118 Pt(II) diimine chromophores with perfluorinated thiolate ligands: nature and dynamics of the charge-transfer-to-diimine lowest excited state. *Inorganic Chemistry*, **2003**, 42, 7077-85 5.1 30
- 117 Ultrafast infrared spectroscopy reveals water-mediated coherent dynamics in an enzyme active site. *Chemical Science*, **2015**, 6, 505-516 9.4 29
- 116 Electrochemistry, chemical reactivity, and time-resolved infrared spectroscopy of donor-acceptor systems [(Q(x))Pt(pap(y))] (Q = substituted o-quinone or o-iminoquinone; pap = phenylazopyridine). *Inorganic Chemistry*, **2014**, 53, 1021-31 5.1 29
- 115 Reversal of a Single Base-Pair Step Controls Guanine Photo-Oxidation by an Intercalating Ruthenium(II) Dipyridophenazine Complex. *Angewandte Chemie - International Edition*, **2015**, 54, 8364-8 16.4 29
- 114 Optically trapped probes with nanometer-scale tips for femto-Newton force measurement. *New Journal of Physics*, **2010**, 12, 113056 2.9 29

113	Excited-state characters and dynamics of [W(CO)(5)(4-cyanopyridine)] and [W(CO)(5)(piperidine)] studied by picosecond time-resolved IR and resonance Raman spectroscopy and DFT calculations: roles of W → L and W → CO MLCT and LF excited states revised. <i>Inorganic Chemistry</i> , 2004 , 43, 1723-34	5.1	29
112	Excited state structure and dynamics of the neutral and anionic flavin radical revealed by ultrafast transient mid-IR to visible spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5810-8	3.4	28
111	Investigating the vibrational dynamics of a 17e(-) metalcarbonyl intermediate using ultrafast two dimensional infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1051-63	3.6	28
110	Probing the excited states of d6 metal complexes containing the 2,2'Nbipyrimidine ligand using time-resolved infrared spectroscopy. 1. Mononuclear and homodinuclear systems. <i>Inorganic Chemistry</i> , 2007 , 46, 3696-704	5.1	28
109	Electronic Excited States of Tungsten(0) Arylisocyanides. <i>Inorganic Chemistry</i> , 2015 , 54, 8518-28	5.1	27
108	Dinitrogen release from arylpentazole: a picosecond time-resolved infrared, spectroelectrochemical, and DFT computational study. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12759-69	2.8	27
107	Photophysics of threaded sp-carbon chains: the polyynes are a sink for singlet and triplet excitation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17996-8008	16.4	27
106	Quantifying Secondary Structure Changes in Calmodulin Using 2D-IR Spectroscopy. <i>Analytical Chemistry</i> , 2017 , 89, 10898-10906	7.8	26
105	Enantiomeric Conformation Controls Rate and Yield of Photoinduced Electron Transfer in DNA Sensitized by Ru(II) Dipyridophenazine Complexes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 734-8	6.4	26
104	Picosecond infrared probing of the vibrational spectra of transients formed upon UV excitation of stacked G-tetrad structures. <i>Chemical Communications</i> , 2007 , 5158-60	5.8	26
103	Photoactivation of the BLUF Protein PixD Probed by the Site-Specific Incorporation of Fluorotyrosine Residues. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14638-14648	16.4	25
102	Excited-state relaxation dynamics of Re(I) tricarbonyl complexes with macrocyclic phenanthroline ligands studied by time-resolved IR spectroscopy. <i>Dalton Transactions</i> , 2009 , 3941-9	4.3	25
101	Mid-infrared picosecond pump-dump-probe and pump-repump-probe experiments to resolve a ground-state intermediate in cyanobacterial phytochrome Cph1. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 16354-64	3.4	25
100	Probing the Mechanism of Carbon-Hydrogen Bond Activation by Photochemically Generated Hydridotris(pyrazolyl)borato Carbonyl Rhodium Complexes: New Experimental and Theoretical Investigations. <i>Organometallics</i> , 2008 , 27, 189-201	3.8	25
99	Long-Range Vibrational Dynamics Are Directed by Watson-Crick Base Pairing in Duplex DNA. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 4009-18	3.4	23
98	Measuring proteins in HO with 2D-IR spectroscopy. <i>Chemical Science</i> , 2019 , 10, 6448-6456	9.4	22
97	Long-lived excited states in i-motif DNA studied by picosecond time-resolved IR spectroscopy. <i>Chemical Communications</i> , 2014 , 50, 2990-2	5.8	22
96	The effect of point mutation on the equilibrium structural fluctuations of ferric Myoglobin. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 7411-9	3.6	22

95	Can aliphatic anchoring groups be utilised with dyes for p-type dye sensitized solar cells?. <i>Dalton Transactions</i> , 2016 , 45, 7708-19	4.3	22
94	Ultrafast 2D-IR and optical Kerr effect spectroscopy reveal the impact of duplex melting on the structural dynamics of DNA. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 10333-10342	3.6	21
93	Insight into the effects of confined hydrocarbon species on the lifetime of methanol conversion catalysts. <i>Nature Materials</i> , 2020 , 19, 1081-1087	27	21
92	Two Tryptophans Are Better Than One in Accelerating Electron Flow through a Protein. <i>ACS Central Science</i> , 2019 , 5, 192-200	16.8	21
91	2D-IR Spectroscopy Shows that Optimized DNA Minor Groove Binding of Hoechst33258 Follows an Induced Fit Model. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 1295-1303	3.4	20
90	Ultrafast Structural Dynamics of BlsA, a Photoreceptor from the Pathogenic Bacterium. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 220-224	6.4	20
89	Reaction dynamics of CN radicals with tetrahydrofuran in liquid solutions. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10424-37	3.6	20
88	Photofragmentation Dynamics in Solution Probed by Transient IR Absorption Spectroscopy: π -Mediated Bond Cleavage in p-Methylthiophenol and p-Methylthioanisole. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3715-20	6.4	20
87	Picosecond time-resolved infrared spectroscopic investigation of excited state dynamics in a PtII diimine chromophore. <i>Chemical Communications</i> , 2002 , 382-3	5.8	20
86	Rapid Screening of DNA-Ligand Complexes via 2D-IR Spectroscopy and ANOVA-PCA. <i>Analytical Chemistry</i> , 2018 , 90, 2732-2740	7.8	19
85	Synthesis and Photophysical Study of a [NiFe] Hydrogenase Biomimetic Compound Covalently Linked to a Re-diimine Photosensitizer. <i>Inorganic Chemistry</i> , 2016 , 55, 527-36	5.1	19
84	Vibrationally quantum-state-specific dynamics of the reactions of CN radicals with organic molecules in solution. <i>Journal of Chemical Physics</i> , 2011 , 134, 244503	3.9	19
83	Investigating interfacial electron transfer in dye-sensitized NiO using vibrational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7877-7885	3.6	18
82	Vibrational energy transfer dynamics in ruthenium polypyridine transition metal complexes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1688-96	3.6	18
81	Monitoring the Formation and Reactivity of Organometallic Alkane and Fluoroalkane Complexes with Silanes and Xe Using Time-Resolved X-ray Absorption Fine Structure Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11471-11480	16.4	18
80	Efficient quenching of TGA-capped CdTe quantum dot emission by a surface-coordinated europium(III) cyclen complex. <i>Inorganic Chemistry</i> , 2013 , 52, 4133-5	5.1	18
79	Dual charge-transfer in rhenium(I) thioether substituted hexaazanaphthalene complexes. <i>Inorganic Chemistry</i> , 2014 , 53, 13049-60	5.1	18
78	Inosine Can Increase DNA's Susceptibility to Photo-oxidation by a Ru Complex due to Structural Change in the Minor Groove. <i>Chemistry - A European Journal</i> , 2017 , 23, 10344-10351	4.8	17

77	Mechanism of the AppABLUF Photocycle Probed by Site-Specific Incorporation of Fluorotyrosine Residues: Effect of the Y21 pKa on the Forward and Reverse Ground-State Reactions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 926-935	16.4	17
76	Protein photochromism observed by ultrafast vibrational spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 11954-9	3.4	17
75	Photoisomerization and photoinduced reactions in liquid CCl ₄ and CHCl ₃ . <i>Journal of Physical Chemistry A</i> , 2013 , 117, 13388-98	2.8	17
74	Vibrational assignment of the ultrafast infrared spectrum of the photoactivatable flavoprotein AppA. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 10722-9	3.4	17
73	Vibrationally resolved dynamics of the reaction of Cl atoms with 2,3-dimethylbut-2-ene in chlorinated solvents. <i>Chemical Science</i> , 2013 , 4, 226-237	9.4	17
72	Relationship between protein structural fluctuations and rebinding dynamics in ferric haem nitrosyls. <i>Biochemical Journal</i> , 2011 , 433, 459-68	3.8	17
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