Jason D Biggs

List of Publications by Citations

28 papers	676 citations	15 h-index	26 g-index
31 ext. papers	723 ext. citations	4.4 avg, IF	3.95 L-index

#	Paper	IF	Citations
28	Multidimensional attosecond resonant X-ray spectroscopy of molecules: lessons from the optical regime. *Annual Review of Physical Chemistry*, **2013**, 64, 101-27	15.7	134
27	Core and valence excitations in resonant X-ray spectroscopy using restricted excitation window time-dependent density functional theory. *Journal of Chemical Physics*, **2012**, 137, 194306	3.9	68
26	Two-dimensional stimulated resonance Raman spectroscopy of molecules with broadband x-ray pulses. *Journal of Chemical Physics*, **2012**, 136, 174117	3.9	62
25	Communication: Comment on the effective temporal and spectral resolution of impulsive stimulated Raman signals. *Journal of Chemical Physics*, **2011**, 134, 161101	3.9	55
24	Watching energy transfer in metalloporphyrin heterodimers using stimulated X-ray Raman spectroscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 15597-601	11.5	33
23	Monitoring conical intersections in the ring opening of furan by attosecond stimulated X-ray Raman spectroscopy. *Structural Dynamics*, **2016**, 3, 023601	3.2	30
22	Femtosecond stimulated Raman spectroscopy of the cyclobutane thymine dimer repair mechanism: a computational study. *Journal of the American Chemical Society*, **2014**, 136, 14801-10	16.4	28
21	Time-, frequency-, and wavevector-resolved x-ray diffraction from single molecules. *Journal of Chemical Physics*, **2014**, 140, 204311	3.9	25
20	Two-Dimensional Stimulated Ultraviolet Resonance Raman Spectra of Tyrosine and Tryptophan; A Simulation Study. *Journal of Raman Spectroscopy*, **2013**, 44, 544-559	2.3	24
19	Coherent nonlinear optical studies of elementary processes in biological complexes: diagrammatic techniques based on the wave function versus the density matrix. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2012**, 370, 3709-27	3	23
18	Entangled Valence Electron-Hole Dynamics Revealed by Stimulated Attosecond X-ray Raman Scattering. *Journal of Physical Chemistry Letters*, **2012**, 3, 2326-2331	6.4	22
17	Multidimensional x-ray spectroscopy of valence and core excitations in cysteine. *Journal of Chemical Physics*, **2013**, 138, 144303	3.9	21
16	Using wave-packet interferometry to monitor the external vibrational control of electronic excitation transfer. *Journal of Chemical Physics*, **2009**, 131, 224101	3.9	17
15	Monitoring Long-Range Electron Transfer Pathways in Proteins by Stimulated Attosecond Broadband X-ray Raman Spectroscopy. *Journal of Physical Chemistry Letters*, **2014**, 5, 3656-3661	6.4	16
14	Two-dimensional stimulated resonance Raman spectroscopy study of the Trp-cage peptide folding. *Physical Chemistry Chemical Physics*, **2013**, 15, 19457-64	3.6	15
13	Three-dimensional attosecond resonant stimulated X-ray Raman spectroscopy of electronic excitations in core-ionized glycine. *Physical Chemistry Chemical Physics*, **2014**, 16, 24323-31	3.6	14
12	Studies of impulsive vibrational influence on ultrafast electronic excitation transfer. *Journal of Physical Chemistry A*, **2012**, 116, 1683-93	2.8	14

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11	Double-core excitations in formamide can be probed by X-ray double-quantum-coherence spectroscopy. *Journal of Chemical Physics*, **2013**, 138, 144301	3.9	13
10	Calculations of nonlinear wave-packet interferometry signals in the pump-probe limit as tests for vibrational control over electronic excitation transfer. *Journal of Chemical Physics*, **2009**, 131, 224302	3.9	13
9	Manipulating one- and two-dimensional stimulated-x-ray resonant-Raman signals in molecules by pulse polarizations. *Physical Review A*, **2012**, 86,	2.6	11
8	Understanding Excitation Energy Transfer in Metalloporphyrin Heterodimers with Different Linkers, Bonding Structures and Geometries through Stimulated X-Ray Raman Spectroscopy. *Journal of Modern Optics*, **2014**, 61, 558-567	1.1	8
7	Multidimensional scattering of attosecond x-ray pulses detected by photon-coincidence. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2014**, 47, 124037	1.3	8
6	Multiple Core and Vibronic Coupling Effects in Attosecond Stimulated X-Ray Raman Spectroscopy (SXRS). *Journal of Chemical Theory and Computation*, **2013**, 9,	6.4	8
5	Two-dimensional x-ray correlation spectroscopy of remote core states. *Structural Dynamics*, **2014**, 1, 014101	3.2	7
4	Characterizing the Intermediates Compound I and II in the Cytochrome P450 Catalytic Cycle with Nonlinear X-ray Spectroscopy: A Simulation Study. *ChemPhysChem*, **2015**, 16, 2006-14	3.2	5
3	Simulations of Two-dimensional Infrared and Stimulated Resonance Raman Spectra of Photoactive Yellow Protein. *Chemical Physics*, **2013**, 422,	2.3	2
2	Dissecting X-Ray Raman Resonances Using Four-Wave Mixing. *EPJ Web of Conferences*, **2013**, 41, 05040	0.3	
1	Resonant Stimulated X-Ray Raman Spectroscopy of Molecule Following Core Ionization. *Springer Proceedings in Physics*, **2015**, 584-586	0.2	