

T J Graber

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,070
citations

471509

17
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

1539
citing authors

#	ARTICLE	IF	CITATIONS
1	Watching a signaling protein function in real time via 100-ps time-resolved Laue crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19256-19261.	7.1	177
2	Protein structural dynamics in solution unveiled via 100-ps time-resolved x-ray scattering. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7281-7286.	7.1	140
3	BioCARS: a synchrotron resource for time-resolved X-ray science. Journal of Synchrotron Radiation, 2011, 18, 658-670.	2.4	114
4	Ultrafast spin-state photoswitching in a crystal and slower consecutive processes investigated by femtosecond optical spectroscopy and picosecond X-ray diffraction. Physical Chemistry Chemical Physics, 2012, 14, 6192.	2.8	79
5	Geometry Changes of a Cu(I) Phenanthroline Complex on Photoexcitation in a Confining Medium by Time-Resolved X-ray Diffraction. Journal of the American Chemical Society, 2004, 126, 5980-5981.	13.7	77
6	Measurement of carbon condensates using small-angle x-ray scattering during detonation of the high explosive hexanitrostilbene. Journal of Applied Physics, 2015, 117, .	2.5	55
7	Imaging nonequilibrium atomic vibrations with x-ray diffuse scattering. Physical Review B, 2010, 82, 235205-235209.	3.2	44
8	Influence of multiple scattering on the Coulomb-explosion imaging of fast molecules. Physical Review A, 1992, 46, 194-200.	2.5	42
9	Synchrotron X-ray Charge-Density Study of Coordination Polymer [Mn(HCOO) ₂ (H ₂ O) ₂]. Chemistry - A European Journal, 2007, 13, 9775-9790.	3.3	38
10	Experimental evidence for anomalous nuclear delocalization in C ₂ H ₃ ⁺ . Physical Review Letters, 1993, 71, 4319-4322.	7.8	34
11	Cooperative elastic switching vs. laser heating in [Fe(phen) ₂ (NCS) ₂] spin-crossover crystals excited by a laser pulse. CrystEngComm, 2016, 18, 7269-7275.	2.6	28
12	Time resolved small angle X-ray scattering experiments performed on detonating explosives at the advanced photon source: Calculation of the time and distance between the detonation front and the x-ray beam. Journal of Applied Physics, 2017, 121, .	2.5	28
13	Measurement of the distribution of bond angles in H ₂ O ⁺ . Journal of Chemical Physics, 1991, 94, 2543-2547.	3.0	20
14	The structures of C ₂ H ⁺ and C ₂ H ₂ ⁺ as measured by Coulomb explosion imaging. Journal of Chemical Physics, 1991, 94, 6377-6387.	3.0	20
15	Direct observation of nuclear rearrangement in molecules. Physical Review Letters, 1993, 70, 3549-3552.	7.8	19
16	Surface oxidation of liquid Sn. Surface Science, 2005, 575, 223-232.	1.9	18
17	Synchrotron Mössbauer spectroscopy using high-speed shutters. Journal of Synchrotron Radiation, 2011, 18, 183-188.	2.4	18
18	Exciton Dispersion and Electronic Excitations in hcpH ₄ e. Physical Review Letters, 2001, 87, 156402.	7.8	17

#	ARTICLE	IF	CITATIONS
19	Structural evolution of detonation carbon in composition B by X-ray scattering. AIP Conference Proceedings, 2017, , .	0.4	16
20	Review of crystal diffraction and its application to focusing energetic gamma rays. Experimental Astronomy, 1995, 6, 47-56.	3.7	15
21	Measurement of carbon condensates using small-angle x-ray scattering during detonation of high explosives. AIP Conference Proceedings, 2017, , .	0.4	15
22	CH ₂ ⁺ is bent. Journal of Chemical Physics, 1993, 98, 7725-7729.	3.0	14
23	Optimizing the accuracy and precision of the single-pulse Laue technique for synchrotron photo-crystallography. Journal of Synchrotron Radiation, 2010, 17, 479-485.	2.4	13
24	A source of cold molecular ions for Coulomb explosion imaging. Review of Scientific Instruments, 1992, 63, 3569-3574.	1.3	11
25	Direct measurement of bending conformations in triatomic dihydride ions. Physical Review A, 1997, 56, 2600-2613.	2.5	8
26	Coulomb explosion of 173-MeVHeH ⁺ ions traversing carbon foils. Physical Review A, 1997, 55, 2090-2096.	2.5	4
27	Time- and momentum-resolved probe of heat transport in photo-excited bismuth. Applied Physics Letters, 2013, 102, 181903.	3.3	3
28	Update in a Rietveld analysis program for x-ray powder spectro-diffractometry. Powder Diffraction, 2003, 18, 32-35.	0.2	2
29	Focusing, collimation and flux throughput at the MCA-CAT bending-magnet beamline at the Advanced Photon Source. Journal of Synchrotron Radiation, 2009, 16, 647-657.	2.4	1
30	Picosecond Structural Dynamics at the Advanced Photon Source. Synchrotron Radiation News, 2010, 23, 18-25.	0.8	0