R Jason Scharff

List of Publications by Year
in descending order

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30	790	566801 15	525886 27
papers	citations	h-index	g-index

30	30	30	989
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic reflectance changes in high-purity zirconium when it is shocked from the Î± to Ï‰ phase. Journal of Applied Physics, 2018, 124, .	1.1	2
2	Laser Initiation of Fe(II) Complexes of 4-Nitro-pyrazolyl Substituted Tetrazine Ligands. Inorganic Chemistry, 2017, 56, 2297-2303.	1.9	40
3	Tetrazolyl Triazolotriazine: A New Insensitive High Explosive. Propellants, Explosives, Pyrotechnics, 2017, 42, 238-242.	1.0	28
4	Cooperative enhancement of the nonlinear optical response in conjugated energetic materials: A TD-DFT study. Journal of Chemical Physics, 2017, 146, 114308.	1.2	13
5	Correlating the Structural, Electronic, and Explosive Sensitivity Properties of CuII Tetrazine Complexes. European Journal of Inorganic Chemistry, 2016, 2016, 3178-3183.	1.0	13
6	Photoactive Excited States in Explosive Fe(II) Tetrazine Complexes: A Time-Dependent Density Functional Theory Study. Journal of Physical Chemistry C, 2016, 120, 28762-28773.	1.5	13
7	Two-Photon Absorption in Conjugated Energetic Molecules. Journal of Physical Chemistry A, 2016, 120, 4455-4464.	1.1	19
8	Synthesis and Electrochemical Behavior of Electronâ€Rich sâ€Tetrazine and Triazoloâ€tetrazine Nitrate Esters. Chemistry - A European Journal, 2016, 22, 10590-10596.	1.7	18
9	Photoactive High Explosives: Substituents Effects on Tetrazine Photochemistry and Photophysics. Journal of Physical Chemistry A, 2016, 120, 895-902.	1.1	11
10	Ultrafast Photodissociation Dynamics of Nitromethane. Journal of Physical Chemistry A, 2016, 120, 519-526.	1.1	39
11	Energetic Chromophores: Low-Energy Laser Initiation in Explosive Fe(II) Tetrazine Complexes. Journal of the American Chemical Society, 2016, 138, 4685-4692.	6.6	120
12	Independent Control of Optical and Explosive Properties: Pyrazoleâ€“Tetrazine Complexes of First Row Transition Metals. Inorganic Chemistry, 2015, 54, 8077-8086.	1.9	21
13	Photoactive High Explosives: Linear and Nonlinear Photochemistry of Petrin Tetrazine Chloride. Journal of Physical Chemistry A, 2015, 119, 4846-4855.	1.1	34
14	Pentaerythritol Trinitrate Substituted s-Tetrazine and s-Triazine. Synlett, 2015, 26, 2029-2032.	1.0	5
15	Sound speed measurements in zirconium using the front surface impact technique. Journal of Physics: Conference Series, 2014, 500, 032014.	0.3	4
16	Sound speed measurements in tantalum using the front surface impact technique. Journal of Physics: Conference Series, 2014, 500, 032018.	0.3	15
17	Shockwave response of two carbon fiber-polymer composites to 50â€‰GPa. Journal of Applied Physics, 2014, 116, .	1.1	24
18	Determining the refractive index of shocked [100] lithium fluoride to the limit of transmissibility. Journal of Applied Physics, 2014, 116, .	1.1	109

#	Article	IF	Citations
19	High-fidelity Hugoniot analysis of porous materials. Review of Scientific Instruments, 2013, 84, 013903.	0.6	16
20	Optimal coherent control methods for explosives detection. Proceedings of SPIE, 2012, , .	0.8	1
21	Use of the Gerchbergâ€“Saxton algorithm in optimal coherent anti-Stokes Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2012, 402, 423-428.	1.9	6
22	Quantum Chemistry Studies of Electronically Excited Nitrobenzene, TNA, and TNT. Journal of Physical Chemistry A, 2011, 115, 12286-12297.	1.1	38
23	Optimal dynamic detection of explosives. Proceedings of SPIE, 2011, , .	0.8	1
24	Coherent control of multiple vibrational excitations for optimal detection. New Journal of Physics, 2009, 11, 105047.	1.2	22
25	Optimal dynamic detection of explosives. , 2009, , .		3
26	Portable Raman explosives detection. Analytical and Bioanalytical Chemistry, 2009, 393, 1571-1578.	1.9	164
27	TOWARDS COHERENT CONTROL OF ENERGETIC MATERIAL INITIATION. , 2009, , .		1
28	THE EVOLUTION OF SENSITIVITY IN HMX-BASED EXPLOSIVES DURING THE REVERSION FROM DELTA TO BETA PHASE. , 2008, , .		3
29	Si-H bond dynamics in hydrogenated amorphous silicon. Physical Review B, 2007, 76, .	1.1	4
30	Two-dimensional phase resolution of frequency-resolved optical gating across the midinfrared. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 2217.	0.9	3