

R Jason Scharff

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

790
citations

566801

15
h-index

525886

27
g-index

30
all docs

30
docs citations

30
times ranked

989
citing authors

#	ARTICLE	IF	CITATIONS
1	Portable Raman explosives detection. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1571-1578.	1.9	164
2	Energetic Chromophores: Low-Energy Laser Initiation in Explosive Fe(II) Tetrazine Complexes. <i>Journal of the American Chemical Society</i> , 2016, 138, 4685-4692.	6.6	120
3	Determining the refractive index of shocked [100] lithium fluoride to the limit of transmissibility. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	109
4	Laser Initiation of Fe(II) Complexes of 4-Nitro-pyrazolyl Substituted Tetrazine Ligands. <i>Inorganic Chemistry</i> , 2017, 56, 2297-2303.	1.9	40
5	Ultrafast Photodissociation Dynamics of Nitromethane. <i>Journal of Physical Chemistry A</i> , 2016, 120, 519-526.	1.1	39
6	Quantum Chemistry Studies of Electronically Excited Nitrobenzene, TNA, and TNT. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12286-12297.	1.1	38
7	Photoactive High Explosives: Linear and Nonlinear Photochemistry of Petrin Tetrazine Chloride. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4846-4855.	1.1	34
8	Tetrazolyl Triazolotriazine: A New Insensitive High Explosive. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 238-242.	1.0	28
9	Shockwave response of two carbon fiber-polymer composites to 50%GPa. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	24
10	Coherent control of multiple vibrational excitations for optimal detection. <i>New Journal of Physics</i> , 2009, 11, 105047.	1.2	22
11	Independent Control of Optical and Explosive Properties: Pyrazole-Tetrazine Complexes of First Row Transition Metals. <i>Inorganic Chemistry</i> , 2015, 54, 8077-8086.	1.9	21
12	Two-Photon Absorption in Conjugated Energetic Molecules. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4455-4464.	1.1	19
13	Synthesis and Electrochemical Behavior of Electron-Rich Tetrazine and Triazolotetrazine Nitrate Esters. <i>Chemistry - A European Journal</i> , 2016, 22, 10590-10596.	1.7	18
14	High-fidelity Hugoniot analysis of porous materials. <i>Review of Scientific Instruments</i> , 2013, 84, 013903.	0.6	16
15	Sound speed measurements in tantalum using the front surface impact technique. <i>Journal of Physics: Conference Series</i> , 2014, 500, 032018.	0.3	15
16	Correlating the Structural, Electronic, and Explosive Sensitivity Properties of CuII Tetrazine Complexes. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3178-3183.	1.0	13
17	Photoactive Excited States in Explosive Fe(II) Tetrazine Complexes: A Time-Dependent Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28762-28773.	1.5	13
18	Cooperative enhancement of the nonlinear optical response in conjugated energetic materials: A TD-DFT study. <i>Journal of Chemical Physics</i> , 2017, 146, 114308.	1.2	13

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19	Photoactive High Explosives: Substituents Effects on Tetrazine Photochemistry and Photophysics. Journal of Physical Chemistry A, 2016, 120, 895-902.	1.1	11
20	Use of the Gerchberg-Saxton algorithm in optimal coherent anti-Stokes Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2012, 402, 423-428.	1.9	6
21	Pentaerythritol Trinitrate Substituted s-Tetrazine and s-Triazine. Synlett, 2015, 26, 2029-2032.	1.0	5
22	Si-H bond dynamics in hydrogenated amorphous silicon. Physical Review B, 2007, 76, .	1.1	4
23	Sound speed measurements in zirconium using the front surface impact technique. Journal of Physics: Conference Series, 2014, 500, 032014.	0.3	4
24	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
25	THE EVOLUTION OF SENSITIVITY IN HMX-BASED EXPLOSIVES DURING THE REVERSION FROM DELTA TO BETA PHASE. , 2008, , .		3
26	Optimal dynamic detection of explosives. , 2009, , .		3
27	Dynamic reflectance changes in high-purity zirconium when it is shocked from the δ to β phase. Journal of Applied Physics, 2018, 124, .	1.1	2
28	TOWARDS COHERENT CONTROL OF ENERGETIC MATERIAL INITIATION. , 2009, , .		1
29	Optimal dynamic detection of explosives. Proceedings of SPIE, 2011, , .	0.8	1
30	Optimal coherent control methods for explosives detection. Proceedings of SPIE, 2012, , .	0.8	1