

Dana D Dlott

List of Publications by Year in descending order

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272
papers

10,895
citations

28274

55
h-index

43889

91
g-index

276
all docs

276
docs citations

276
times ranked

7061
citing authors

#	ARTICLE	IF	CITATIONS
1	Shock Pressure Dependence of Hot Spots in a Model Plastic-Bonded Explosive. <i>Journal of Physical Chemistry A</i> , 2022, 126, 145-154.	2.5	8
2	Comparing the shock sensitivity of insensitive energetic materials. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	7
3	Thermo-mechanical behavior measurement of polymer-bonded sugar under shock compression using in-situ time-resolved Raman spectroscopy. <i>Scientific Reports</i> , 2022, 12, 1876.	3.3	2
4	High throughput tabletop shock techniques and measurements. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	9
5	Laser pulses into bullets: tabletop shock experiments. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10653-10666.	2.8	4
6	Hot spot ignition and growth from tandem micro-scale simulations and experiments on plastic-bonded explosives. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	12
7	Shock-induced kinetics and cellular structures of liquid nitromethane detonation. <i>Combustion and Flame</i> , 2021, 225, 5-12.	5.2	13
8	Fast energy release from reactive materials under shock compression. <i>Applied Physics Letters</i> , 2021, 118, 101902.	3.3	4
9	Laser-driven flyer plate impact: Computational studies guided by experiments. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	8
10	Ethylenediamine Catalyzes Nitromethane Shock-to-Detonation in Two Distinct Ways. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8185-8192.	2.6	7
11	Hot Spot Chemistry in Several Polymer-Bound Explosives under Nanosecond Shock Conditions. <i>Propellants, Explosives, Pyrotechnics</i> , 2020, 45, 338-346.	1.6	12
12	Mechanochemistry of Metal-Organic Frameworks under Pressure and Shock. <i>Accounts of Chemical Research</i> , 2020, 53, 2806-2815.	15.6	20
13	Shock initiation and hot spots in plastic-bonded 1,3,5-triamino-2,4,6-trinitrobenzene (TATB). <i>Applied Physics Letters</i> , 2020, 116, .	3.3	22
14	Shock Initiation Microscopy with High Time and Space Resolution. <i>Propellants, Explosives, Pyrotechnics</i> , 2020, 45, 223-235.	1.6	34
15	Observing Hot Spot Formation in Individual Explosive Crystals Under Shock Compression. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4646-4653.	2.5	40
16	Shock initiation of reactive nanolaminates. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	3
17	Imaging the reactive flow structure in shocked nitromethane and nitromethane with additives. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	3
18	Shock compression microscopy: Shocked materials with high time and space resolution. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	4

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19	Computational studies of laser-driven flyer impact experiments to probe properties of inert and energetic materials. AIP Conference Proceedings, 2020, , .	0.4	0
20	Shock compression dynamics of PETN/TATB explosive charges. AIP Conference Proceedings, 2020, , .	0.4	4
21	Pyrometry in the reaction zone of PETN- and RDX-based polymer bound explosives. AIP Conference Proceedings, 2020, , .	0.4	1
22	Probing shock-initiation of plastic-bonded explosives with a tabletop microscope. AIP Conference Proceedings, 2020, , .	0.4	3
23	Tracking temperatures and growth of hot spots in a simplified plastic-bonded explosive under shock compression. AIP Conference Proceedings, 2020, , .	0.4	3
24	Absorption of shock wave in the crystal films of metal-organic framework. AIP Conference Proceedings, 2020, , .	0.4	0
25	Examination of Local Microscale-Microsecond Temperature Rise in HMX-HTPB Energetic Material Under Impact Loading. Jom, 2019, 71, 3531-3535.	1.9	7
26	Shock Wave Energy Absorption in Metal-Organic Framework. Journal of the American Chemical Society, 2019, 141, 2220-2223.	13.7	69
27	Hot-spot generation and growth in shocked plastic-bonded explosives studied by optical pyrometry. Journal of Applied Physics, 2019, 125, .	2.5	26
28	Dynamic absorption in optical pyrometry of hot spots in plastic-bonded triaminotrinitrobenzene. Applied Physics Letters, 2019, 114, .	3.3	19
29	Shock Compression Spectroscopy Under a Microscope. , 2019, , 45-56.		5
30	Molecular Photophysics under Shock Compression: Ab Initio Nonadiabatic Molecular Dynamics of Rhodamine Dye. Journal of Physical Chemistry C, 2018, 122, 13600-13607.	3.1	4
31	Numerical predictions of shock propagation through unreactive and reactive liquids with experimental validation. AIP Conference Proceedings, 2018, , .	0.4	3
32	Optical windows as materials for high-speed shock wave detectors. AIP Advances, 2018, 8, .	1.3	30
33	Drop hammer with high-speed thermal imaging. Review of Scientific Instruments, 2018, 89, 115104.	1.3	15
34	Shock compression spectroscopy of quantum dots. AIP Conference Proceedings, 2018, , .	0.4	1
35	Studies in shocked nitromethane through high dynamic range spectroscopy. AIP Conference Proceedings, 2018, , .	0.4	6
36	Shock wave dissipation by metal organic framework. AIP Conference Proceedings, 2018, , .	0.4	4

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37	Molecular probing of shocked rhodamine 6G in liquid water. AIP Conference Proceedings, 2018, , .	0.4	1
38	Laser driven flyers for investigations of shock initiation of explosives. AIP Conference Proceedings, 2018, , .	0.4	4
39	High throughput investigation of shocked reactive nanolaminates. AIP Conference Proceedings, 2018, , .	0.4	2
40	Detonation on a tabletop: Nitromethane with high time and space resolution. Journal of Applied Physics, 2018, 124, .	2.5	35
41	Thermal Explosions of Polymer-Bonded Explosives with High Time and Space Resolution. Journal of Physical Chemistry C, 2018, 122, 14289-14295.	3.1	12
42	Vibrational sum-frequency generation study of the CO ₂ electrochemical reduction at Pt/EMIM-BF ₄ solid/liquid interfaces. Journal of Electroanalytical Chemistry, 2017, 800, 144-150.	3.8	36
43	Studies of electrochemical interfaces by broadband sum frequency generation. Journal of Electroanalytical Chemistry, 2017, 800, 114-125.	3.8	51
44	Time-dependent pressure distribution in microstructured shocked materials using fluorescent dye probes. AIP Conference Proceedings, 2017, , .	0.4	2
45	Ultrafast Proton Transfer in Polymer Blends Triggered by Shock Waves. Journal of the American Chemical Society, 2017, 139, 3974-3977.	13.7	13
46	Shock compression dynamics under a microscope. AIP Conference Proceedings, 2017, , .	0.4	14
47	Mechanochemistry for shock wave energy dissipation. AIP Conference Proceedings, 2017, , .	0.4	12
48	Shock Wave Chemistry in a Metal-Organic Framework. Journal of the American Chemical Society, 2017, 139, 4619-4622.	13.7	80
49	Shock initiation of nano-Al/Teflon: High dynamic range pyrometry measurements. Journal of Applied Physics, 2017, 121, .	2.5	15
50	Effects of water on low-overpotential CO ₂ reduction in ionic liquid studied by sum-frequency generation spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 10491-10501.	2.8	35
51	Shock initiation of explosives: High temperature hot spots explained. Applied Physics Letters, 2017, 111, .	3.3	68
52	Fluorescent probes for shock compression spectroscopy of microstructured materials. AIP Conference Proceedings, 2017, , .	0.4	1
53	Fluorescence depolarization measurements under shock compression. AIP Conference Proceedings, 2017, , .	0.4	0
54	32-channel pyrometer with high dynamic range for studies of shocked nanothermites. AIP Conference Proceedings, 2017, , .	0.4	11

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55	Laser-excited optical emission response of CdTe quantum dot/polymer nanocomposite under shock compression. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	16
56	Multichannel emission spectrometer for high dynamic range optical pyrometry of shock-driven materials. <i>Review of Scientific Instruments</i> , 2016, 87, 103107.	1.3	44
57	High dynamic range emission measurements of shocked energetic materials: Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX). <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	34
58	Shock initiation of explosives: Temperature spikes and growth spurts. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	40
59	High-Speed Laser-Launched Flyer Impacts Studied with Ultrafast Photography and Velocimetry. <i>Journal of Dynamic Behavior of Materials</i> , 2016, 2, 194-206.	1.7	57
60	Exploration of CdTe quantum dots as mesoscale pressure sensors via time-resolved shock-compression photoluminescent emission spectroscopy. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	17
61	Single Molecules under High Pressure. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6373-6381.	3.1	16
62	Structural Transition in an Ionic Liquid Controls CO ₂ Electrochemical Reduction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20892-20899.	3.1	78
63	Interfacial Processes of a Model Lithium Ion Battery Anode Observed, in Situ, with Vibrational Sum-Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10227-10233.	3.1	58
64	Ultrasonic hammer produces hot spots in solids. <i>Nature Communications</i> , 2015, 6, 6581.	12.8	83
65	Emission Lifetimes of a Fluorescent Dye under Shock Compression. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10910-10916.	2.5	11
66	Interrogating a Deeply Buried Electrode by Vibrational Sum Frequency Spectroscopy. Towards Understanding the Electroreduction at Ionic Liquid-Metal Interfaces. <i>ECS Transactions</i> , 2015, 66, 21-31.	0.5	2
67	Dynamics of shocks in laser-launched flyer plates probed by photon Doppler velocimetry. <i>Journal of Physics: Conference Series</i> , 2014, 500, 192002.	0.4	4
68	Using laser-driven flyer plates to study the shock initiation of nanoenergetic materials. <i>Journal of Physics: Conference Series</i> , 2014, 500, 182010.	0.4	7
69	Bright emissive core-shell spherical microparticles for shock compression spectroscopy. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	11
70	Dynamics of polymer response to nanosecond shock compression. <i>Applied Physics Letters</i> , 2014, 104, 101914.	3.3	22
71	Ultrafast pressure-sensitive paint for shock compression spectroscopy. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	17
72	Hot spots in energetic materials generated by infrared and ultrasound, detected by thermal imaging microscopy. <i>Review of Scientific Instruments</i> , 2014, 85, 023705.	1.3	44

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73	Picosecond dynamics of hydrogen bond rearrangements during phase separation of a triethylamine and water mixture. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 891-897.	2.9	6
74	Ignition of Nanocomposite Thermites by Electric Spark and Shock Wave. <i>Propellants, Explosives, Pyrotechnics</i> , 2014, 39, 444-453.	1.6	20
75	Laser-driven flyer plates for shock compression science: Launch and target impact probed by photon Doppler velocimetry. <i>Review of Scientific Instruments</i> , 2014, 85, 043908.	1.3	92
76	Modifying Vibrational Energy Flow in Aromatic Molecules: Effects of Ortho Substitution. <i>Journal of Physical Chemistry A</i> , 2014, 118, 965-973.	2.5	31
77	Hot spot generation in energetic materials created by long-wavelength infrared radiation. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	25
78	Temperature-Dependent Dynamic Response to Flash Heating of Molecular Monolayers on Metal Surfaces: Vibrational Energy Exchange. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7770-7776.	2.6	6
79	Laser-driven flyer plates for shock compression spectroscopy. <i>Journal of Physics: Conference Series</i> , 2014, 500, 142011.	0.4	5
80	Molecular adsorbates under high pressure: a study using surface-enhanced Raman scattering spectroscopy. <i>Journal of Physics: Conference Series</i> , 2014, 500, 122004.	0.4	3
81	Picosecond dynamics of shock compressed and flash-heated nanometer thick films of $\hat{\nu}$ -HMX. <i>Journal of Physics: Conference Series</i> , 2014, 500, 142004.	0.4	3
82	Controlling Vibrational Energy Flow in Liquid Alkylbenzenes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10898-10904.	2.6	34
83	Shock Initiation of Nano-Al + Teflon: Time-Resolved Emission Studies. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4866-4875.	3.1	39
84	Three-Dimensional Spectroscopy of Vibrational Energy in Liquids: Nitromethane and Acetonitrile. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15444-15451.	2.6	12
85	Unidirectional Vibrational Energy Flow in Nitrobenzene. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6066-6072.	2.5	46
86	Probing of molecular adsorbates on Au surfaces with large-amplitude temperature jumps. <i>Journal of Applied Physics</i> , 2013, 113, 183509.	2.5	7
87	Nitro stretch probing of a single molecular layer to monitor shock compression with picosecond time resolution. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	2
88	A thin-film hugoniot measurement using a laser-driven flyer plate. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	11
89	Microscopic states of shocked polymers. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	4
90	Time-resolved emission of dye probes in a shock-compressed polymer. <i>Journal of Applied Physics</i> , 2012, 112, 103508.	2.5	24

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91	Simplified laser-driven flyer plates for shock compression science. Review of Scientific Instruments, 2012, 83, 103901.	1.3	94
92	Experiments Probing Fundamental Mechanisms of Energetic Material Initiation and Ignition. Materials Research Society Symposia Proceedings, 2012, 1405, .	0.1	0
93	Solid Electrolyte Interfaces and Interphases in Lithium Batteries: <i>In Situ</i> Studies Using Nonlinear Optical Probes. Materials Research Society Symposia Proceedings, 2012, 1388, 1.	0.1	1
94	In Situ Spectroscopic Examination of a Low Overpotential Pathway for Carbon Dioxide Conversion to Carbon Monoxide. Journal of Physical Chemistry C, 2012, 116, 15307-15312.	3.1	230
95	Comparing Boron and Aluminum Nanoparticle Combustion in Teflon Using Ultrafast Emission Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 2751-2760.	3.1	26
96	In Situ Probing of Solid-Electrolyte Interfaces with Nonlinear Coherent Vibrational Spectroscopy. Journal of the Electrochemical Society, 2012, 159, A244-A252.	2.9	59
97	Time-Resolved Spectroscopy of Initiation and Ignition of Flash-Heated Nanoparticle Energetic Materials. Journal of Physical Chemistry C, 2012, 116, 14737-14747.	3.1	24
98	The distributions of enhancement factors in close-packed and nonclose-packed surface-enhanced Raman substrates. Journal of Raman Spectroscopy, 2012, 43, 389-395.	2.5	11
99	Effect of Carbon Chain Length on the Dynamics of Heat Transfer at a Gold/Hydrocarbon Interface: Comparison of Simulation with Experiment. Journal of Physical Chemistry C, 2011, 115, 9622-9628.	3.1	21
100	Study of Ethanol Electrooxidation in Alkaline Electrolytes with Isotope Labels and Sum-Frequency Generation. Journal of Physical Chemistry Letters, 2011, 2, 2236-2240.	4.6	51
101	Reaction pathways of ethanol electrooxidation on polycrystalline platinum catalysts in acidic electrolytes. Journal of Catalysis, 2011, 278, 181-188.	6.2	132
102	Ultrafast emission spectroscopy of exploding nanoaluminum in Teflon: Observations of aluminum fluoride. Chemical Physics Letters, 2011, 512, 211-216.	2.6	12
103	New Developments in the Physical Chemistry of Shock Compression. Annual Review of Physical Chemistry, 2011, 62, 575-597.	10.8	75
104	Vibrational spectroscopy of nitroaromatic self-assembled monolayers under extreme conditions. Chemical Physics Letters, 2011, 501, 369-374.	2.6	10
105	Simulation of the absorption spectra of nanometallic Al particles with core-shell structure: size-dependent interband transitions. Journal of Nanoparticle Research, 2010, 12, 777-787.	1.9	15
106	Compact broadband vibrational sum-frequency generation spectrometer with nonresonant suppression. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 75, 1289-1296.	3.9	54
107	Broad-band sum frequency generation study of formic acid chemisorption on a Pt (1 0 0) electrode. Journal of Electroanalytical Chemistry, 2010, 649, 32-36.	3.8	18
108	Sum-frequency generation of acetate adsorption on Au and Pt surfaces: Molecular structure effects. Journal of Chemical Physics, 2010, 133, 234702.	3.0	35

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109	Ultrafast Raman Spectroscopy of Vibrational Energy in Molecules with High Time and Space Resolution. , 2010, , .		0
110	Real-Time Investigations of Pt(111) Surface Transformations in Sulfuric Acid Solutions. Journal of the American Chemical Society, 2010, 132, 14036-14038.	13.7	51
111	Vibrational Energy Relaxation of Liquid Aryl-Halides X-C ₆ H ₅ (X = F, Cl, Br, I). Journal of Physical Chemistry A, 2010, 114, 10500-10507.	2.5	30
112	Ultrafast Condensed-Phase Emission from Energetic Composites of Teflon and Nanoaluminum. Journal of Physical Chemistry A, 2010, 114, 6731-6741.	2.5	26
113	High-energy flat-top beams for laser launching using a Gaussian mirror. Applied Optics, 2010, 49, 3723.	2.1	20
114	High-Pressure Raman Spectroscopy of Molecular Monolayers Adsorbed on a Metal Surface. Journal of Physical Chemistry C, 2009, 113, 5751-5757.	3.1	21
115	Vibrational Energy Dynamics of Normal and Deuterated Liquid Benzene. Journal of Physical Chemistry A, 2009, 113, 1445-1452.	2.5	31
116	Ultrafast Excitation of Molecular Adsorbates on Flash-Heated Gold Surfaces. Journal of Physical Chemistry A, 2009, 113, 12105-12114.	2.5	23
117	Electrochemically Driven Reorientation of Three Ionic States of <i>p</i> -Aminobenzoic Acid on Ag(111). Journal of Physical Chemistry C, 2009, 113, 2417-2424.	3.1	22
118	Sum-Frequency Spectroscopy of Molecular Adsorbates on Low-Index Ag Surfaces: Effects of Azimuthal Rotation. Analytical Chemistry, 2009, 81, 1154-1161.	6.5	11
119	Ultrafast Nonlinear Coherent Vibrational Sum-Frequency Spectroscopy Methods To Study Thermal Conductance of Molecules at Interfaces. Accounts of Chemical Research, 2009, 42, 1343-1351.	15.6	77
120	Vibrational Energy Dynamics of Glycine, <i>N</i> -Methylacetamide, and Benzoate Anion in Aqueous (D ₂ O) Solution. Journal of Physical Chemistry A, 2009, 113, 75-84.	2.5	26
121	LASER-DRIVEN FLYER PLATES FOR REACTIVE MATERIALS RESEARCH. AIP Conference Proceedings, 2009, , .	0.4	6
122	ULTRAFAST VIBRATIONAL SPECTROSCOPY OF SHOCK COMPRESSION WITH MOLECULAR RESOLUTION. , 2009, , .		0
123	Ultrafast dynamics of heat flow across molecules. Chemical Physics, 2008, 350, 31-44.	1.9	50
124	Measurement of the Distribution of Site Enhancements in Surface-Enhanced Raman Scattering. Science, 2008, 321, 388-392.	12.6	988
125	Spatially Resolved Vibrational Energy Transfer in Molecular Monolayers. Journal of Physical Chemistry A, 2008, 112, 3523-3529.	2.5	30
126	Vibrational Relaxation of Normal and Deuterated Liquid Nitromethane. Journal of Physical Chemistry B, 2008, 112, 232-241.	2.6	46

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127	ULTRAFAST SHOCK WAVE COHERENT DISSOCIATION AND SPECTROSCOPY OF MATERIALS. , 2008, , .		1
128	Vibrational energy in molecules probed with high time and space resolution. International Reviews in Physical Chemistry, 2007, 26, 223-248.	2.3	27
129	Planar nanosecond shock wave generation and propagation in poly vinyl alcohol investigated by CARS. , 2007, , .		0
130	Effects of high carrier densities on phonon and carrier lifetimes in Si by time-resolved anti-Stokes Raman scattering. Applied Physics Letters, 2007, 90, 252104.	3.3	28
131	Hydrogen-Bond Disruption by Vibrational Excitations in Water. Journal of Physical Chemistry A, 2007, 111, 3196-3208.	2.5	53
132	Surface Nonlinear Vibrational Spectroscopy of Energetic Materials:â€™ HMX. Journal of Physical Chemistry C, 2007, 111, 2235-2241.	3.1	28
133	Ultrafast Chemistry of Nanoenergetic Materials Studied by Time-Resolved Infrared Spectroscopy:â€™ Aluminum Nanoparticles in Teflon. Journal of Physical Chemistry C, 2007, 111, 10278-10284.	3.1	59
134	Nonresonant Background Suppression in Broadband Vibrational Sum-Frequency Generation Spectroscopy. Journal of Physical Chemistry C, 2007, 111, 13645-13647.	3.1	170
135	Ultrafast Flash Thermal Conductance of Molecular Chains. Science, 2007, 317, 787-790.	12.6	401
136	Vibrational relaxation of an amino acid in aqueous solution. Chemical Physics Letters, 2007, 447, 134-139.	2.6	22
137	Thinking big (and small) about energetic materials. Materials Science and Technology, 2006, 22, 463-473.	1.6	114
138	Long-Lived Interfacial Vibrations of Water. Journal of Physical Chemistry B, 2006, 110, 20115-20117.	2.6	5
139	Time-Resolved Microscopy Analysis of Laser Photothermal Imaging Media. Journal of Imaging Science and Technology, 2006, 50, 401.	0.5	7
140	Shock Compression Spectroscopy with High Time and Space Resolution. AIP Conference Proceedings, 2006, , .	0.4	6
141	Vibrational sum frequency generation studies of the (2Å–2)â†’(âˆš19Å–âˆš19) phase transition of CO on Pt(111) electrodes. Journal of Chemical Physics, 2006, 125, 154705.	3.0	66
142	MULTI-PHONON UP-PUMPING IN ENERGETIC MATERIALS. Advanced Series in Physical Chemistry, 2005, , 303-333.	1.5	14
143	Ultrafast three-dimensional microscopy of laser photothermal imaging materials. , 2005, , .		1
144	Quantitative vibrational sum-frequency generation spectroscopy of thin layer electrochemistry: CO on a Pt electrode. Surface Science, 2005, 585, 3-16.	1.9	104

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145	Time- and space-resolved studies of shock compression molecular dynamics. <i>Shock Waves</i> , 2005, 14, 391-402.	1.9	9
146	Printing of protein microarrays via a capillary-free fluid jetting mechanism. <i>Proteomics</i> , 2005, 5, 4138-4144.	2.2	104
147	Ultrafast Dynamics of Nanotechnology Energetic Materials. <i>Materials Research Society Symposia Proceedings</i> , 2005, 896, 11.	0.1	1
148	Ultrafast Dynamics of Shock Compression of Molecular Monolayers. <i>Physical Review Letters</i> , 2005, 94, 015501.	7.8	50
149	CHEMISTRY: Ultrafast Chemical Exchange Seen with 2D Vibrational Echoes. <i>Science</i> , 2005, 309, 1333-1334.	12.6	8
150	Biological laser printing as an alternative to traditional protein arrays. , 2005, , .		3
151	Ultrafast Dynamics of Self-Assembled Monolayers under Shock Compression: Effects of Molecular and Substrate Structure. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5033-5044.	2.6	29
152	Ultrafast Shock Compression of Self-Assembled Monolayers: A Molecular Picture. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5045-5054.	2.6	18
153	Vibrational energy transfer in reverse micelle molecular nanostructures. , 2005, , .		0
154	Shock Compression of Molecules with 1.5 Angstrom Resolution. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	6
155	Shock Compression of Proteins: The Energy Landscape Model. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	0
156	Shock-Induced Chemical Reaction Propagation in Nanoenergetic Materials Observed with Nanometer Spatial Resolution. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	4
157	Near-infrared laser ablation of poly tetrafluoroethylene (Teflon) sensitized by nanoenergetic materials. <i>Applied Physics Letters</i> , 2004, 85, 1493-1495.	3.3	46
158	Propagation of shock-induced chemistry in nanoenergetic materials: The first micrometer. <i>Journal of Applied Physics</i> , 2004, 95, 3667-3676.	2.5	54
159	Reply to: Comment on "Vibrational relaxation and spectral diffusion following ultrafast OH stretch excitation of water"™, by H.J. Bakker, A.J. Lock, D. Madsen. <i>Chemical Physics Letters</i> , 2004, 385, 332-335.	2.6	18
160	Vibrational energy dynamics of water studied with ultrafast Stokes and anti-Stokes Raman spectroscopy. <i>Chemical Physics Letters</i> , 2004, 397, 40-45.	2.6	27
161	The vibrational Stokes shift of water (HOD in D2O). <i>Journal of Chemical Physics</i> , 2004, 120, 8345-8348.	3.0	27
162	Vibrational Substructure in the OH Stretching Transition of Water and HOD. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9054-9063.	2.5	166

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163	Vibrational Energy Transfer Across a Reverse Micelle Surfactant Layer. <i>Science</i> , 2004, 306, 473-476.	12.6	114
164	Nonlinear interferometric vibrational imaging of molecular species. , 2004, 5321, 149.		1
165	Vibrational energy relaxation pathways of water. <i>Chemical Physics Letters</i> , 2003, 380, 404-410.	2.6	73
166	Fast spectroscopy of energy release in nanometric explosives. <i>Chemical Physics Letters</i> , 2003, 368, 189-194.	2.6	39
167	Vibrational relaxation and spectral evolution following ultrafast OH stretch excitation of water. <i>Chemical Physics Letters</i> , 2003, 371, 594-600.	2.6	88
168	Vibrational substructure in the OH stretching band of water. <i>Chemical Physics Letters</i> , 2003, 378, 281-288.	2.6	78
169	Fast Spectroscopy of Laser-Initiated Nanoenergetic Materials. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4485-4493.	2.6	94
170	Fast molecular processes in energetic materials. <i>Theoretical and Computational Chemistry</i> , 2003, 13, 125-191.	0.4	42
171	Ultrafast spectroscopy of laser-initiated nanoenergetic materials. <i>Materials Research Society Symposia Proceedings</i> , 2003, 800, 163.	0.1	6
172	Molecular species-sensitive optical coherence tomography using coherent anti-stokes Raman scattering spectroscopy. , 2003, 4956, 9.		3
173	Watching Vibrational Energy Transfer in Liquids with Atomic Spatial Resolution. <i>Science</i> , 2002, 296, 2201-2203.	12.6	149
174	Ultrafast high repetition rate absorption spectroscopy of polymer shock compression. <i>Shock Waves</i> , 2002, 12, 79-86.	1.9	8
175	Ultrafast vibrational spectroscopy imaging of nanoshock planar propagation. <i>Shock Waves</i> , 2002, 12, 129-136.	1.9	15
176	Plume and jetting regimes in a laser based forward transfer process as observed by time-resolved optical microscopy. <i>Applied Surface Science</i> , 2002, 197-198, 181-187.	6.1	63
177	Ultra-low threshold laser ablation investigated by time-resolved microscopy. <i>Applied Surface Science</i> , 2002, 197-198, 3-10.	6.1	16
178	Time-resolved optical microscopy of a laser-based forward transfer process. <i>Applied Physics Letters</i> , 2001, 78, 3169-3171.	3.3	78
179	Plume and Jetting Regimes in a Laser Based Forward Transfer Process as Observed by Time-Resolved Optical Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 2001, 698, 391.	0.1	1
180	Vibrational energy redistribution in polyatomic liquids: 3D infrared Raman spectroscopy. <i>Chemical Physics</i> , 2001, 266, 149-166.	1.9	136

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