

Yanqiang Yang

List of Publications by Year in descending order

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52
papers

650
citations

567144

15
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642610

23
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53
docs citations

53
times ranked

974
citing authors

#	ARTICLE	IF	CITATIONS
1	Tracking asymmetric intramolecular vibrational redistribution of nitromethane. <i>Journal of Molecular Structure</i> , 2021, 1226, 129342.	1.8	5
2	Vibrational energy redistribution in crystalline nitromethane simulated by <i>ab initio</i> molecular dynamics. <i>RSC Advances</i> , 2021, 11, 9557-9567.	1.7	1
3	A Covalent-Like Feature of Intermolecular Hydrogen Bonding in Energetic Molecules 3,6-Dihydroazino-s-tetrazine (DHT). <i>Advanced Theory and Simulations</i> , 2021, 4, 2100179.	1.3	2
4	Phase transition and trigger mechanism of initial reaction under pressure for benzofuroxan energetic materials: Raman spectroscopy and first-principle calculations. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 865-876.	1.2	5
5	DFT/TDDFT investigation on the "A type molecule probes 4-(5-R-thiophen-2-yl)-2-isobutyl-2H-[1,2,3]triazolo[4,5-e][1,2,4] triazolo[1,5-a]pyrimidines: fluorescence sensing mechanism and roles of weak interactions. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	0.5	6
6	Elucidating the Coupling Mechanisms of Rapid Intramolecular Vibrational Energy Redistribution in Nitromethane: <i>Ab Initio</i> Molecular Dynamics Simulation. <i>Journal of Physical Chemistry A</i> , 2020, 124, 8184-8191.	1.1	9
7	Shock-driven electron redistribution studies of triamino trinitrobenzene using time-resolved Raman spectroscopy and first-principle calculation. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 2007-2015.	1.2	6
8	Phosphor thermometry at 5%kHz rate using a high-speed fiber-optic spectrometer. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	11
9	Thermochemistry and Initial Decomposition Pathways of Triazole Energetic Materials. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2951-2960.	1.1	20
10	Role of electron in intramolecular vibrational energy redistribution: a simulation of time- and frequency-resolved CARS spectrum. <i>RSC Advances</i> , 2019, 9, 26030-26036.	1.7	5
11	<i>Ab initio</i> molecular dynamics simulation of vibrational energy redistribution of selective excitation of C-H stretching vibrations for solid nitromethane. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20822-20828.	1.3	5
12	New perspective on the fluorescence and sensing mechanism of TNP chemosensor 2-(4,5-bis(4-chlorophenyl)-1H-imidazol-2-yl)-4-chlorophenol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 213, 309-317.	2.0	5
13	Theoretical insights into the sensing mechanism of a series of terpyridine-based chemosensors for TNP. <i>Chemical Physics Letters</i> , 2019, 725, 45-51.	1.2	15
14	Selective excitation of vibrational modes and probe for asymmetric intramolecular energy redistribution. <i>Physica Scripta</i> , 2019, 94, 065402.	1.2	5
15	Dissipation dynamics of intrachain exciton coupled with phonons in MEH-PPV: Time-resolved multiplex coherent anti-Stokes Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 557-562.	1.2	2
16	Reconsideration of the Detection and Fluorescence Mechanism of a Pyrene-Based Chemosensor for TNT. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1400-1405.	1.1	32
17	Two-photon absorption and upconversion luminescence of colloidal CsPbX ₃ quantum dots. <i>Optical Materials</i> , 2018, 75, 880-886.	1.7	45
18	Predicting the Initial Thermal Decomposition Path of Nitrobenzene Caused by Mode Vibration at Moderate-Low Temperatures: Temperature-Dependent Anti-Stokes Raman Spectra Experiments and First-Principals Calculations. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8336-8343.	1.1	9

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19	Pressure dependence on electronic structures, charge distribution and bond orders of solid nitromethane using nonlocal DFT functional. <i>Molecular Simulation</i> , 2018, 44, 1454-1460.	0.9	2
20	Vibrational energy redistribution of selectively excite liquid acetonitrile. <i>European Physical Journal D</i> , 2018, 72, 1.	0.6	4
21	Stability, Elastic Properties, and Deformation of LiBN ₂ : A Potential High-Energy Material. <i>Inorganic Chemistry</i> , 2018, 57, 6333-6339.	1.9	0
22	Time-resolved Raman spectroscopy for shock-driven intramolecular electron redistribution of cyclotrimethylene trinitramine (RDX). <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1645-1651.	1.2	5
23	New insights into the sensing mechanism of a phosphonate pyrene chemosensor for TNT. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19539-19545.	1.3	20
24	Phonon-assisted anti-Stokes excitation: Mechanism for the unusual temperature dependence of the Ce ³⁺ luminescence in yttrium aluminum garnet. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	3
25	Revealing mechanisms of PL properties at high and low temperature regimes in CdSe/ZnS core/shell quantum dots. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	12
26	Tracking intramolecular energy redistribution dynamics in aryl halides: the effect of halide mass. <i>RSC Advances</i> , 2018, 8, 29775-29780.	1.7	7
27	Origin of the Ultrafast Response of the Lateral Photovoltaic Effect in Amorphous MoS ₂ /Si Junctions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18362-18368.	4.0	46
28	Tracking Intramolecular Vibrational Redistribution in Polyatomic Small-Molecule Liquids by Ultrafast Time-Frequency-Resolved CARS. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4948-4952.	1.1	17
29	Visualizing Intramolecular Vibrational Redistribution in Cyclotrimethylene Trinitramine (RDX) Crystals by Multiplex Coherent Anti-Stokes Raman Scattering. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2565-2571.	1.1	23
30	The peak shift and evolution of upconversion luminescence from CsPbBr ₃ nanocrystals under femtosecond laser excitation. <i>RSC Advances</i> , 2017, 7, 35757-35764.	1.7	45
31	Reversible Electrochemical Control over Photoexcited Luminescence of Core/Shell CdSe/ZnS Quantum Dot Film. <i>Nanoscale Research Letters</i> , 2017, 12, 626.	3.1	6
32	Vibrational dynamics of nitromethane mixed with IR780 dye studied by coherent anti-stokes Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1213-1219.	1.2	12
33	A comparative study of 1,3,5-Trinitroperhydro-1,3,5-triazine (RDX) and Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) under high pressures using Raman spectroscopy and DFT calculations. <i>Journal of Molecular Structure</i> , 2016, 1119, 240-249.	1.8	17
34	Alpha-Oxo Acids Assisted Transformation of FeS to Fe ₃ S ₄ at Low Temperature: Implications for Abiotic, Biotic, and Prebiotic Mineralization. <i>Astrobiology</i> , 2015, 15, 1043-1051.	1.5	14
35	LASER-INDUCED THERMAL-MECHANICAL DAMAGE CHARACTERISTICS OF CLEARTRAN MULTISPECTRAL ZINC SULFIDE WITH TEMPERATURE-DEPENDENT PROPERTIES. <i>Surface Review and Letters</i> , 2015, 22, 1550014.	0.5	3
36	Observation of laser-driven shock propagation by nanosecond time-resolved Raman spectroscopy. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	5

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37	Plasmon-enhanced photoluminescence of Si-V centers in diamond from a nanoassembled metal-diamond hybrid structure. <i>CrystEngComm</i> , 2014, 16, 8356.	1.3	15
38	Photoinduced electron transfer of Rhodamine 6G/N,N-diethylaniline revealed by multiplex transient grating and transient absorption spectroscopies. <i>Applied Physics B: Lasers and Optics</i> , 2014, 116, 271-277.	1.1	10
39	Effect of intramolecular charge transfer on the two-photon absorption behavior of multibranched triphenylamine derivations. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	6
40	Density Functional Theoretical Analysis of the Molecular Structural Effects on Raman Spectra of Carotene and Lycopene. <i>Chinese Journal of Chemistry</i> , 2012, 30, 2573-2580.	2.6	16
41	Upconversion luminescent characteristics and peak shift of CdSeS nanocrystals under different wavelength laser excitation. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1049-1061.	0.8	16
42	High-Pressure Vibrational Spectroscopy of Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX). <i>Propellants, Explosives, Pyrotechnics</i> , 2011, 36, 22-27.	1.0	10
43	The characteristics of laser-driven shock wave investigated by time-resolved Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 345-348.	1.2	15
44	Shock induced damage and damage threshold of optical K9 glass investigated by laser-driven shock wave. <i>Journal of Applied Physics</i> , 2011, 109, 073103.	1.1	11
45	Coherent coupling of vibrational states in the MEH-PPV film investigated through Multi-Color Photon Echo. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 1020-1023.	2.0	2
46	Simulation of the absorption spectra of nanometallic Al particles with core-shell structure: size-dependent interband transitions. <i>Journal of Nanoparticle Research</i> , 2010, 12, 777-787.	0.8	15
47	Spectroscopic and upconversion properties of erbium-doped potassium lithium tantalate niobate crystals under 800 nm femtosecond laser excitation. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	17
48	The third-order optical nonlinearity and upconversion luminescence of CdTe quantum dots under femtosecond laser excitation. <i>Journal of Nanoparticle Research</i> , 2009, 11, 665-670.	0.8	11
49	Experimental Study on Photocatalytic Activity of Cu ₂ O/Cu Nanocomposites Under Visible Light. <i>Catalysis Letters</i> , 2009, 132, 75-80.	1.4	61
50	Electric-field-induced layer-by-layer fabrication of stable second-order nonlinear optical films. <i>Polymer International</i> , 2009, 58, 933-938.	1.6	14
51	Solution Structures and Ultrafast Vibrational Energy Dissipation Dynamics in Cyclotetramethylene Tetranitramine. <i>Journal of Chemical Physics</i> , 0, , .	1.2	1
52	Investigation of temperature effect on pressure measurement using Raman peak shift by variable temperature and pressure Raman experiment. <i>Journal of Raman Spectroscopy</i> , 0, , .	1.2	1