Jie Chen

List of Publications by Year
in descending order

63	880	516710 16	526287 27
papers	citations	h-index	g-index

64	64	64	1256
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoinduced evolution of lattice orthorhombicity and conceivably enhanced ferromagnetism in LaMnO3 membranes. Npj Quantum Materials, 2022, 7, .	5.2	8
2	Resonance Raman Spectra for the In Situ Identification of Bacteria Strains and Their Inactivation Mechanism. Applied Spectroscopy, 2021, 75, 1146-1154.	2.2	2
3	Thymine dissociation and dimer formation: A Raman and synchronous fluorescence spectroscopic study. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
4	Rationale behind subpicosecond optical response of transparent conductive oxides in epsilon-near-zero region. Journal of Applied Physics, 2021, 129, .	2.5	10
5	Effect of polarization on photoexcited carrier dynamics in ferroelectric thin films. Journal of the European Ceramic Society, 2021, 41, 151-157.	5.7	1
6	High Contrast, Femtosecond Light Polarization Manipulation in Epsilon-near-Zero Material Coupled to a Plasmonic Nanoantenna Array. ACS Photonics, 2021, 8, 2791-2799.	6.6	15
7	A novel approach for remote detection of bacteria using simple charge-coupled device cameras and telescope. Review of Scientific Instruments, 2020, 91, 074106.	1.3	2
8	Extending Human Vision to Infrared and Ultraviolet Light: A Study Using Micro-Particles and Fluorescent Molecules. IEEE Access, 2020, 8, 73890-73897.	4.2	2
9	Nanoscale thermal transport across an GaAs/AlGaAs heterostructure interface. Structural Dynamics, 2020, 7, 025101.	2.3	13
10	Evolution of picosecond surface electric fields generated by photon-induced charge emission from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mrow><mml:mn>0.67</mml:mn></mml:mrow></mml:msub><mml:mo>Â</mml:mo><mml:m mathvariant="normal">Sr</mml:mi><mml:mrow><mml:mn>0.33</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">MnO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> films. Physical Review B, 2020, 102, .	3.2	0
11	Room temperature hidden state in a manganite observed by time-resolved X-ray diffraction. Npj Quantum Materials, 2019, 4, .	5.2	2
12	Photostability of MAPbI₃ Perovskite Solar Cells by Incorporating Black Phosphorus. Solar Rrl, 2019, 3, 1900197.	5.8	53
13	Fast Charge Diffusion in MAPb(I_{1â€“x}Br_x)₃ Films for High-Efficiency Solar Cells Revealed by Ultrafast Time-Resolved Reflectivity. Journal of Physical Chemistry A, 2019, 123, 2674-2678.	2.5	6
14	Identification of Live and Dead Bacteria: A Raman Spectroscopic Study. IEEE Access, 2019, 7, 23549-23559.	4.2	24
15	A tryptophan synchronous and normal fluorescence study on bacteria inactivation mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18822-18826.	7.1	18
16	In situ detection of live-to-dead bacteria ratio after inactivation by means of synchronous fluorescence and PCA. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 668-673.	7.1	45
17	Determination of live:dead bacteria as a function of antibiotic treatment. Journal of Microbiological Methods, 2018, 154, 73-78.	1.6	5
18	Transient lattice deformations of crystals studied by means of ultrafast time-resolved x-ray and electron diffraction. Structural Dynamics, 2018, 5, .	2.3	6

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19	Ultrafast active control of UV light with plasmonic resonance on aluminum nanostripes. Applied Physics Letters, 2018, 112, 191107.	3.3	0
20	Controlling surface plasmon polaritons at femtosecond timescales on an aluminum-coated grating. Applied Physics Letters, 2017, 110, .	3.3	10
21	Femtosecond laser induced structural dynamics and melting of Cu (111) single crystal. An ultrafast time-resolved x-ray diffraction study. Journal of Applied Physics, 2017, 121, .	2.5	17
22	Direct observation of ultrafast thermal and non-thermal lattice deformation of polycrystalline aluminum film. Applied Physics Letters, 2017, 111, .	3.3	6
23	Strong influence of polaron-polaron interaction on the magnetoresistance effect in La0.7A0.3MnO3 thin films. Applied Physics Letters, 2017, 111, 192408.	3.3	6
24	Plasmon-enhanced optical nonlinearity for femtosecond all-optical switching. Applied Physics Letters, 2017, 111, 181102.	3.3	13
25	Hand-held synchronous scan spectrometer for in situ and immediate detection of live/dead bacteria ratio. Review of Scientific Instruments, 2017, 88, 114301.	1.3	7
26	Carrier emission of n-type gallium nitride illuminated by femtosecond laser pulses. Journal of Applied Physics, 2016, 120, .	2.5	1
27	Synergistic reaction of silver nitrate, silver nanoparticles, and methylene blue against bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13612-13617.	7.1	48
28	Ultrafast structural dynamics studied by kilohertz time-resolved x-ray diffraction. Chinese Physics B, 2015, 24, 108701.	1.4	3
29	Mapping transient electric fields with picosecond electron bunches. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14479-14483.	7.1	16
30	Ultrafast probe using femtosecond electron pulses: real-time probing plasma dynamics. , 2015, , .		1
31	The low photo-inactivation rate of bacteria in human plasma II. Inhibition of methylene blue bleaching in plasma and effective bacterial destruction by the addition of dilute acetic acid to human plasma. Photochemical and Photobiological Sciences, 2015, 14, 1880-1887.	2.9	5
32	Investigation of transient surface electric field induced by femtosecond laser irradiation of aluminum. New Journal of Physics, 2014, 16, 103013.	2.9	8
33	Simultaneous investigation of ultrafast structural dynamics and transient electric field by sub-picosecond electron pulses. Journal of Applied Physics, 2014, 115, .	2.5	8
34	Time-resolved X-ray diffraction studies of laser-induced acoustic wave propagation in bilayer metallic thin crystals. Journal of Applied Physics, 2014, 116, 093509.	2.5	2
35	Rationale and mechanism for the low photoinactivation rate of bacteria in plasma. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 33-38.	7.1	32
36	Subpicosecond and Sub-Angstrom Time and Space Studies by Means of Light, X-ray, and Electron Interaction with Matter. Journal of Physical Chemistry Letters, 2014, 5, 225-232.	4.6	8

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37	Electron Transfer Mechanism in Organometallic Molecules Studied by Subpicosecond Extended X-ray Absorption Fine Structure Spectroscopy. Journal of Physical Chemistry B, 2013, 117, 4332-4339.	2.6	6
38	Laser-induced short-range disorder in aluminum revealed by ultrafast electron diffuse scattering. Applied Physics Letters, 2013, 103, .	3.3	11
39	X-ray laser resonator for the kilo-electron-volt range. Applied Physics Letters, 2013, 102, 174101.	3.3	2
40	Laser-Induced Transient Structural Changes in Ag(111) Studied by Time Resolved X-ray Diffraction. Materials Research Society Symposia Proceedings, 2013, 1526, 1.	0.1	0
41	Transient lattice distortion induced by ultrashort heat pulse propagation through thin film metal/metal interface. Applied Physics Letters, 2013, 102, 051915.	3.3	4
42	Coherent acoustic wave oscillations and melting on Ag(111) surface by time resolved x-ray diffraction. Applied Physics Letters, 2012, 100, .	3.3	16
43	Inactivation of bacteria in plasma. Photochemical and Photobiological Sciences, 2012, 11, 1700-1704.	2.9	10
44	Ultrafast time resolved x-ray diffraction, extended x-ray absorption fine structure and x-ray absorption near edge structure. Journal of Applied Physics, 2012, 112, 031101.	2.5	27
45	Effect of pH on Methylene Blue Transient States and Kinetics and Bacteria Photoinactivation. Journal of Physical Chemistry A, 2011, 115, 2702-2707.	2.5	42
46	Research Spotlight: Accurate delivery of chemicals and intense light on infected areas only for targeted therapy inside the body. Therapeutic Delivery, 2011, 2, 1241-1245.	2.2	0
47	Electron Transfer in Metalâ€Organic Molecules. A Time Resolved EXAFS and Optical Spectroscopy Study. Journal of the Chinese Chemical Society, 2011, 58, 415-427.	1.4	1
48	Fiber based pathogen photoinactivating system. Review of Scientific Instruments, 2011, 82, 015110.	1.3	3
49	Blast wave and contraction in Au(111) thin film induced by femtosecond laser pulses. A time resolved x-ray diffraction study.. Journal of Applied Physics, 2011, 109, .	2.5	21
50	Time-resolved structural dynamics of thin metal films heated with femtosecond optical pulses. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18887-18892.	7.1	69
51	EVOLUTION OF TRANSIENT STRUCTURES IN SOLIDS AND LIQUIDS BY MEANS OF TIME RESOLVED X-RAY DIFFRACTION AND X-RAY ABSORPTION FINE STRUCTURE. Advances in Multi-photon Processes and Spectroscopy, 2010, , 117-183.	0.6	3
52	Time resolved spectroscopic studies of methylene blue and phenothiazine derivatives used for bacteria inactivation. Chemical Physics Letters, 2010, 498, 81-85.	2.6	28
53	Bond Evolution in Electron Transfer: A Time-Resolved EXAFS Study. Journal of Physical Chemistry A, 2010, 114, 2751-2756.	2.5	7
54	Comment on â€œNew Insight into Photochemistry of Ferrioxalateâ€• Journal of Physical Chemistry A, 2009, 113, 8818-8819.	2.5	13

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55	Electron Transfer Mechanism and Photochemistry of Ferrioxalate Induced by Excitation in the Charge Transfer Band. Inorganic Chemistry, 2008, 47, 2024-2032.	4.0	37
56	Photochemistry and electron-transfer mechanism of transition metal oxalato complexes excited in the charge transfer band. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15235-15240.	7.1	14
57	Laser Induced Transient Structures in a 150 nm Gold Crystal. Journal of the Chinese Chemical Society, 2007, 54, 1619-1628.	1.4	4
58	Photoelectron Detachment and Solvated Electron Dynamics of the Cobalt(III) and Iron(III) Oxalato Complexes. Journal of Physical Chemistry A, 2007, 111, 11584-11588.	2.5	10
59	Transient Structures and Kinetics of the Ferrioxalate Redox Reaction Studied by Time-Resolved EXAFS, Optical Spectroscopy, and DFT. Journal of Physical Chemistry A, 2007, 111, 9326-9335.	2.5	57
60	Electron transfer and dissociation mechanism of ferrioxalate: A time resolved optical and EXAFS study. Chemical Physics Letters, 2007, 437, 50-55.	2.6	34
61	Hot electrons blast wave generated by femtosecond laser pulses on thin Au(111) crystal, monitored by subpicosecond X-ray diffraction. Chemical Physics Letters, 2006, 419, 374-378.	2.6	37
62	Transient structures of crystals and liquids: an x-ray diffraction and EXAFS study. , 2005, , .		0
63	Synthesis of 5â€²-O-(2-Azido-2-deoxy--D-glycosyl)nucleosides and Their Antitumor Activities. Helvetica Chimica Acta, 2003, 86, 2073-2081.	1.6	8