

Yunfei Liu

List of Publications by Year in descending order

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38
papers

695
citations

758635

12
h-index

580395

25
g-index

39
all docs

39
docs citations

39
times ranked

560
citing authors

#	ARTICLE	IF	CITATIONS
1	A Forest Fire Detection System Based on Ensemble Learning. <i>Forests</i> , 2021, 12, 217.	0.9	289
2	Theoretical understanding of magnetic and electronic structures of Ti3C2 monolayer and its derivatives. <i>Solid State Communications</i> , 2015, 222, 9-13.	0.9	41
3	Broadband terahertz spectroscopy of amino acids. <i>Instrumentation Science and Technology</i> , 2017, 45, 423-439.	0.9	32
4	Terahertz spectra of DNA nucleobase crystals: A joint experimental and computational study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 179, 255-260.	2.0	31
5	Maximum Data Collection Rate Routing Protocol Based on Topology Control for Rechargeable Wireless Sensor Networks. <i>Sensors</i> , 2016, 16, 1201.	2.1	26
6	Soft Decision Cooperative Spectrum Sensing With Entropy Weight Method for Cognitive Radio Sensor Networks. <i>IEEE Access</i> , 2020, 8, 109000-109008.	2.6	23
7	Terahertz spectra and weak intermolecular interactions of nucleosides or nucleoside drugs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120344.	2.0	21
8	A Vision-Based Detection and Spatial Localization Scheme for Forest Fire Inspection from UAV. <i>Forests</i> , 2022, 13, 383.	0.9	21
9	Terahertz Spectra of L-Ascorbic Acid and Thiamine Hydrochloride Studied by Terahertz Spectroscopy and Density Functional Theory. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2014, 35, 871-880.	1.2	20
10	Iterative Interpolation for Parameter Estimation of LFM Signal Based on Fractional Fourier Transform. <i>Circuits, Systems, and Signal Processing</i> , 2013, 32, 1489-1499.	1.2	19
11	Room-temperature ferromagnetism in two-dimensional transition metal borides: a first-principles investigation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10615-10620.	1.3	18
12	Research on Binarization of QR Code Image. , 2010, , .		15
13	THz spectra and corresponding vibrational modes of DNA base pair cocrystals and polynucleotides. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 200, 195-201.	2.0	14
14	First-principles Investigations of Magnetic Semiconductors: An example of Transition Metal Decorated Two-dimensional SnS Monolayer. <i>Nanomaterials</i> , 2018, 8, 789.	1.9	12
15	Plantation Monitoring System Based on Internet of Things. , 2013, , .		10
16	THz vibrational spectroscopy for RNA basepair cocrystals and oligonucleotide sequences. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 209, 49-54.	2.0	10
17	Characterization of degradation behaviors of PLA biodegradable plastics by infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 279, 121376.	2.0	10
18	Data Aggregation Routing for Rechargeable Wireless Sensor Networks in Forest Monitoring. <i>Wireless Personal Communications</i> , 2014, 79, 773-788.	1.8	9

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19	A comparative study on the experimental and calculated results of mid-infrared and Raman vibrational modes of nucleic acid bases. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 74, 305-314.	1.3	8
20	Wireless sensor networks for forest environmental monitoring. , 2010, , .		7
21	Anycast Routing Protocol for Forest Monitoring in Rechargeable Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2013, 9, 239860.	1.3	7
22	Giant Band Gap Reduction and Insulatorâ€“Metal Transition in Two-Dimensional InX (X = Cl, Br, I) Layers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21763-21767.	1.5	5
23	Investigation on Estimator of Chirp Rate and Initial Frequency of LFM Signals Based on Modified Discrete Chirp Fourier Transform. <i>Circuits, Systems, and Signal Processing</i> , 2019, 38, 5861-5882.	1.2	5
24	Mixed Propagation Modes in Three Bragg Propagation Periods of Variable Chain Structures. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 311-318.	3.1	5
25	Transformation of CrSe Monolayers into Room-Temperature Half Metals via Chemical Edge Modification. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15664-15669.	1.5	5
26	Microwave-induced thermoacoustic imaging of wood: a first demonstration. <i>Wood Science and Technology</i> , 2019, 53, 1223-1234.	1.4	4
27	Terahertz spectral signature of DNA macromolecules. , 2015, , .		3
28	Assessing internal soundness of hardwood logs through acoustic impact test and waveform analysis. <i>Wood Science and Technology</i> , 2019, 53, 1111-1134.	1.4	3
29	Compression and Recovery of 3D Broad-Leaved Tree Point Clouds Based on Compressed Sensing. <i>Forests</i> , 2020, 11, 257.	0.9	3
30	Sub-THz spectroscopic characterization identification for pine wood nematode ribosomal DNA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 232, 118152.	2.0	3
31	Evaluating internal condition of hardwood logs based on AR-minimum entropy deconvolution combined with wavelet based spectral kurtosis approach. <i>Holzforschung</i> , 2021, 75, 237-249.	0.9	3
32	Acoustic impact testing and waveform analysis for damage detection in glued laminated timber. <i>Holzforschung</i> , 2017, 71, 801-811.	0.9	2
33	Temperature dependence of terahertz spectra of chlorophyll a and b. , 2015, , .		1
34	Investigation of the temperature dependence of THz spectra of amino acids based on THz spectroscopy and density functional theory. , 2016, , .		1
35	Coupled-mode analysis of two-parallel photonic crystal waveguides. , 2012, , .		0
36	Scattering of light by gratings of metal-coated nanocylinders on dielectric substrate. , 2014, , .		0

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37	Design of traveling wave electrode for electro-optic polymer/TiO ₂ multilayer slot waveguide modulators. , 2015, , .		0
38	Scattering of light by a nanowire grating on a dielectric slab. , 2016, , .		0