

Yao Lu

List of Publications by Year in descending order

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75
papers

1,628
citations

430442

18
h-index

315357

38
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77
all docs

77
docs citations

77
times ranked

1497
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Characterization of Lignin and Its Degradation Products with Spectroscopic Methods. <i>Journal of Spectroscopy</i> , 2017, 2017, 1-15.	0.6	201
2	Ultrahigh power factor and flexible silver selenide-based composite film for thermoelectric devices. <i>Energy and Environmental Science</i> , 2020, 13, 1240-1249.	15.6	165
3	Good Performance and Flexible PEDOT:PSS/Cu ₂ Se Nanowire Thermoelectric Composite Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12819-12829.	4.0	153
4	Ultrahigh Performance of n-Type Ag ₂ Se Films for Flexible Thermoelectric Power Generators. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9646-9655.	4.0	115
5	Ultrahigh performance polyvinylpyrrolidone/Ag ₂ Se composite thermoelectric film for flexible energy harvesting. <i>Nano Energy</i> , 2021, 80, 105488.	8.2	82
6	Preparation and Characterization of Te/Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate)/Cu ₇ Te ₄ Ternary Composite Films for Flexible Thermoelectric Power Generator. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42310-42319.	4.0	74
7	Progress on PEDOT:PSS/Nanocrystal Thermoelectric Composites. <i>Advanced Electronic Materials</i> , 2019, 5, 1800822.	2.6	70
8	Characterization of a bio-oil from pyrolysis of rice husk by detailed compositional analysis and structural investigation of lignin. <i>Bioresource Technology</i> , 2012, 116, 114-119.	4.8	62
9	High Power Factor Ag/Ag ₂ Se Composite Films for Flexible Thermoelectric Generators. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14327-14333.	4.0	58
10	Enhanced-Performance PEDOT:PSS/Cu ₂ Se-Based Composite Films for Wearable Thermoelectric Power Generators. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 631-638.	4.0	49
11	Exceptionally High Power Factor Ag ₂ Se/Se/Polypyrrole Composite Films for Flexible Thermoelectric Generators. <i>Advanced Functional Materials</i> , 2022, 32, 2106902.	7.8	49
12	Exceptional power factor of flexible Ag/Ag ₂ Se thermoelectric composite films. <i>Chemical Engineering Journal</i> , 2022, 434, 134739.	6.6	33
13	Giant enhancement of THz-frequency optical nonlinearity by phonon polariton in ionic crystals. <i>Nature Communications</i> , 2021, 12, 3183.	5.8	29
14	Paint Removal on the 5A06 Aluminum Alloy Using a Continuous Wave Fiber Laser. <i>Coatings</i> , 2019, 9, 488.	1.2	25
15	Air-Core Ring Fiber With >1000 Radially Fundamental OAM Modes Across O, E, S, C, and L Bands. <i>IEEE Access</i> , 2020, 8, 68280-68287.	2.6	23
16	Simultaneous quantification of eleven bioactive phenolic compounds in pigeon pea natural resources and in vitro cultures by ultra-high performance liquid chromatography coupled with triple quadrupole mass spectrometry (UPLC-QQ-MS/MS). <i>Food Chemistry</i> , 2021, 335, 127602.	4.2	21
17	Polarization-resolved edge states in terahertz topological photonic crystal. <i>Optics Express</i> , 2019, 27, 22819.	1.7	21
18	Simultaneous determination of taxoids and flavonoids in twigs and leaves of three <i>Taxus</i> species by UHPLC-MS/MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 189, 113456.	1.4	20

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19	Design guidelines for chalcogenide-based flexible thermoelectric materials. <i>Materials Advances</i> , 2021, 2, 2584-2593.	2.6	18
20	Analytical Strategies Involved in the Detailed Componential Characterization of Biooil Produced from Lignocellulosic Biomass. <i>International Journal of Analytical Chemistry</i> , 2017, 2017, 1-19.	0.4	17
21	Outage Probability of Cooperative Relay Networks in Two-Wave with Diffuse Power Fading Channels. <i>IEEE Transactions on Communications</i> , 2012, 60, 42-47.	4.9	16
22	Porous nanocomposite membranes based on functional GO with selective function for lithium adsorption. <i>New Journal of Chemistry</i> , 2018, 42, 4432-4442.	1.4	16
23	Giant Tunable Circular Dichroism of Large-Area Extrinsic Chiral Metal Nanocrescent Arrays. <i>Nanoscale Research Letters</i> , 2019, 14, 388.	3.1	16
24	Ultraviolet laser cleaning and surface characterization of AH36 steel for rust removal. <i>Journal of Laser Applications</i> , 2020, 32, .	0.8	15
25	Application of UV-B radiation for enhancing the accumulation of bioactive phenolic compounds in pigeon pea [<i>Cajanus cajan</i> (L.) Millsp.] hairy root cultures. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 228, 112406.	1.7	14
26	Effective Production of Phenolic Compounds with Health Benefits in Pigeon Pea [<i>Cajanus cajan</i> (L.) Millsp.] Hairy Root Cultures. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 8350-8361.	2.4	13
27	Topological Valley Transport of Terahertz Phononâ€“Polaritons in a LiNbO ₃ Chip. <i>ACS Photonics</i> , 2021, 8, 2737-2745.	3.2	13
28	A comparison of autologous transplantation of retinal pigment epithelium (<sc>RPE</sc>) monolayer sheet graft with <sc>RPE</sc>â€“Bruch's membrane complex graft in neovascular ageâ€“related macular degeneration. <i>Acta Ophthalmologica</i> , 2017, 95, e443-e452.	0.6	12
29	Interface energy level alignment and improved film quality with a hydrophilic polymer interlayer to improve the device efficiency and stability of all-inorganic halide perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6743-6748.	2.7	12
30	Topologically tuned terahertz confinement in a nonlinear photonic chip. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	12
31	Symbol Error Rate of Decode-and-Forward Relaying in Two-Wave with Diffuse Power Fading Channels. <i>IEEE Transactions on Wireless Communications</i> , 2012, 11, 3412-3417.	6.1	11
32	Zwitterion imprinted composite membranes with obvious antifouling character for selective separation of Li ions. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 707-715.	1.2	11
33	Evaluation of coalâ€“related model compounds using tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1462-1472.	0.7	10
34	Development of the inorganic nanoparticles reinforced alginateâ€“based hybrid fiber for wound care and healing. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51228.	1.3	10
35	On-chip plasmon-induced transparency in THz metamaterial on a LiNbO ₃ subwavelength planar waveguide. <i>Optics Express</i> , 2019, 27, 7373.	1.7	10
36	Identification of genes associated with biosynthesis of bioactive flavonoids and taxoids in <i>Taxus cuspidata</i> Sieb. et Zucc. plantlets exposed to UV-B radiation. <i>Gene</i> , 2022, 823, 146384.	1.0	10

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37	Preparation of a polylactic acid knitting mesh for pelvic floor repair and in vivo evaluation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 74, 204-213.	1.5	9
38	Hollow Ring-Core Photonic Crystal Fiber With >500 OAM Modes Over 360-nm Communications Bandwidth. <i>IEEE Access</i> , 2021, 9, 66999-67005.	2.6	9
39	Adaptive bayesian beamforming with sidelobe constraint. <i>IEEE Communications Letters</i> , 2010, 14, 369-371.	2.5	8
40	The dark current suppression of black silicon photodetector by a lateral heterojunction. <i>Optical Materials</i> , 2020, 110, 110474.	1.7	8
41	Conversion from terahertz-guided waves to surface waves with metasurface. <i>Optics Express</i> , 2018, 26, 31233.	1.7	8
42	Suppressed Halide Segregation and Defects in Wide Bandgap Perovskite Solar Cells Enabled by Doping Organic Bromide Salt with Moderate Chain Length. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1711-1720.	1.5	8
43	Surface enhancement of THz wave by coupling a subwavelength LiNbO3 slab waveguide with a composite antenna structure. <i>Scientific Reports</i> , 2017, 7, 17602.	1.6	7
44	Propagation of THz pulses in rectangular subwavelength dielectric waveguides. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	7
45	Solvent modification to suppress halide segregation in mixed halide perovskite solar cells. <i>Journal of Materials Science</i> , 2020, 55, 9787-9794.	1.7	7
46	Predictors of short-term outcomes related to central subfield foveal thickness after intravitreal bevacizumab for macular edema due to central retinal vein occlusion. <i>International Journal of Ophthalmology</i> , 2016, 9, 86-92.	0.5	7
47	Bentonite- <i>Acrylamide</i> Hydrogels Prepared by the Nonmixing Method: Characterization and Properties. <i>ACS Omega</i> , 2019, 4, 16826-16832.	1.6	6
48	SRSF5 regulates alternative splicing of DMTF1 pre-mRNA through modulating SF1 binding. <i>RNA Biology</i> , 2021, , 1-19.	1.5	6
49	Efficient generation and frequency modulation of quasi-monochromatic terahertz wave in Lithium Niobate subwavelength waveguide. <i>Optics Express</i> , 2017, 25, 14766.	1.7	5
50	Observation of "Frozen" Phase-Propagation of THz Pulses in a Dispersive Optical System. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000591.	4.4	5
51	Fabrication, characterization and application of polypropylene macroporous mesh for repairing pelvic floor defects. <i>Textile Research Journal</i> , 2017, 87, 878-888.	1.1	4
52	Time-resolved imaging of mode-conversion process of terahertz transients in subwavelength waveguides. <i>Frontiers of Physics</i> , 2019, 14, 1.	2.4	4
53	A Novel Evaluation Method Developed for the Denitrogenation and Deoxygenation on Molecules in Coal during Catalytic Treatments. <i>ChemistrySelect</i> , 2019, 4, 13582-13588.	0.7	4
54	Cavity-cavity coupling based on a terahertz rectangular subwavelength waveguide. <i>Journal of Applied Physics</i> , 2019, 126, 063103.	1.1	3

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55	Giant nonlinearity of THz waves mediated by photon-phonon strong coupling. , 2020, , .		3
56	In-plane reflection phase engineering of graphene plasmons realized by electronic boundary design at the nanoscale. AIP Advances, 2022, 12, .	0.6	3
57	Health-Promoting Phenolic Compound Accumulation, Antioxidant Response, Endogenous Salicylic Acid Generation, and Biosynthesis Gene Expression in Germinated Pigeon Pea Seeds Treated with UV-B Radiation. Journal of Agricultural and Food Chemistry, 2022, 70, 5680-5690.	2.4	3
58	OPTIC DISK ASTROCYTOMA UNASSOCIATED WITH TUBEROUS SCLEROSIS COMPLEX MANAGED WITH SURGICAL EXCISION AND A 7-YEAR FOLLOW-UP. Retinal Cases and Brief Reports, 2018, Publish Ahead of Print, 462-467.	0.3	2
59	Insight into molecular information of Huolinguole lignite obtained by Fourier transform ion cyclotron resonance mass spectrometry and statistical methods. Rapid Communications in Mass Spectrometry, 2019, 33, 1107-1113.	0.7	2
60	Device performance improvements in all-inorganic perovskite light-emitting diodes: the role of binary ammonium cation terminals. Physical Chemistry Chemical Physics, 2022, 24, 6208-6214.	1.3	2
61	Outage Probability of Cooperative Relay Systems in Two-Wave with Diffuse Power Fading Environments. , 2011, , .		1
62	Asymptotic Performance Analysis of AF Relaying in Two-Wave with Diffuse Power Fading Channels. , 2012, , .		1
63	Cathodoluminescence Enhancement of MoS ₂ by Femtosecond Laser Induced Periodic Surface Structures. Journal of Nanoscience and Nanotechnology, 2018, 18, 7557-7560.	0.9	1
64	Transient establishment of the wavefronts for negative, zero, and positive refraction. Optics Express, 2018, 26, 1954.	1.7	1
65	Terahertz Integration and Spatio-Temporal Super-Resolution Imaging on LiNbO3 Chip. Zhongguo Jiguang/Chinese Journal of Lasers, 2019, 46, 0508003.	0.2	1
66	THz Nonlinearity Enhancement by Phonon Polaritons in Ionic Crystals. , 2021, , .		0
67	Real-space and real-time imaging of THz wave confinement and standing wave in a Fabry-Perot resonator. , 2017, , .		0
68	10.1063/1.5030515.1. , 2018, , .		0
69	Repair of pseudo time-reversal broken by topological phase transition in a photonic crystal slab. , 2019, , .		0
70	On-chip plasmon-induced transparency using a meta-structure in THz regime. , 2019, , .		0
71	Visualization of a cavity-cavity coupling in a LiNbO3 subwavelength waveguide at THz frequency. , 2019, , .		0
72	10.1063/1.5100654.1. , 2019, , .		0

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73	Propagation phase elimination of light pulses by an initial phase-locked synchronized moving source. , 2020, , .		0
74	Demonstration of highly unidirectional edge states in terahertz slab waveguides. , 2020, , .		0
75	A Study on Data-Driven Novel Cancer Staging Methods. Studies in Health Technology and Informatics, 2017, 245, 1263.	0.2	0