Jieyun Wu

List of Publications by Year
in descending order

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44 papers	1,184 citations	361413 20 h-index	377865 34 g-index
45 all docs	45 docs citations	45 times ranked	841 citing authors

#	Article	IF	Citations
1	Structural modification from centrosymmetric Rb₄Hg₂Ge₂S₈ to noncentrosymmetric (Na₃Rb)Hg₂Ge₂S₈: mixed alkali metals strategy for infrared nonlinear optical material design. Journal of Materials Chemistry C, 2022, 10, 3300-3306.	5.5	13
2	The synthesis and structureâ€“property relation analysis of metal chalcohalide crystals Cs₂InPS₄X₂ (X = Cl, Br) with mixed anions. Dalton Transactions, 2022, 51, 4728-4733.	3.3	1
3	SrAgAsS₄: A Noncentrosymmetric Sulfide with Good Infrared Nonlinear Optical Performance Induced by Aliovalent Substitution from Centrosymmetric SrGa₂S₄. Inorganic Chemistry, 2022, 61, 9205-9212.	4.0	6
4	Systematic study of the structure-property relationship of a series of near-infrared absorbing push-pull heptamethine chromophores for electro-optics. Science China Chemistry, 2021, 64, 263-273.	8.2	13
5	On-chip integration of a metalâ€“organic framework nanomaterial on a SiO₂ waveguide for sensitive VOC sensing. Lab on A Chip, 2021, 21, 3298-3306.	6.0	10
6	AXHg₃P₂S₈ (A = Rb, Cs; X = Cl, Br): New Excellent Infrared Nonlinear Optical Materials with Mixedâ€Anion Chalcohalide Groups of Trigonal Planar [HgS₂X]^{3â¯} and Tetrahedral [HgS₃X]^{5â¯}. Advanced Optical Materials, 2021, 9, 2100563.	7.3	41
7	Lab on optical fiber: surface nano-functionalization for real-time monitoring of VOC adsorption/desorption in metal-organic frameworks. Nanophotonics, 2021, 10, 2705-2716.	6.0	13
8	Design of a Low-Crosstalk Sub-Wavelength-Pitch Silicon Waveguide Array for Optical Phased Array. IEEE Photonics Journal, 2021, 13, 1-8.	2.0	3
9	SiO2 waveguide based Mach-Zehnder interferometer with nanoporous ZIF-8 for sensitive VOC detection. , 2021, , .		0
10	Investigation into Structural Variation from 3D to 1D and Strong Second Harmonic Generation of the AHgPS₄ (A⁺ = Na⁺, K⁺, Rb⁺,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 37	4.0	10
11	Low-Cost and Highly Sensitive Liquid Refractive Index Sensor Based on Polymer Horizontal Slot Waveguide. Photonic Sensors, 2020, 10, 7-15.	5.0	18
12	Polymer waveguide Mach-Zehnder interferometer coated with dipolar polycarbonate for on-chip nitroaromatics detection. Sensors and Actuators B: Chemical, 2020, 305, 127406.	7.8	15
13	High-performance organic second- and third-order nonlinear optical materials for ultrafast information processing. Journal of Materials Chemistry C, 2020, 8, 15009-15026.	5.5	117
14	EuHgGeSe₄ and EuHgSnS₄: Two Quaternary Eu-Based Infrared Nonlinear Optical Materials with Strong Second-Harmonic-Generation Responses. Inorganic Chemistry, 2020, 59, 18452-18460.	4.0	26
15	Photo-bleaching of optical waveguide polymers with dipolar chromophores to improve their sensitivity for explosive vapor detection. Journal of Materials Chemistry C, 2020, 8, 13010-13018.	5.5	6
16	The synthesis of second-order nonlinear optical chromophores with conjugated steric hindrance for electro-optics at 850 nm. Journal of Materials Chemistry C, 2020, 8, 5494-5500.	5.5	13
17	Nanoscale lightâ€“matter interactions in metalâ€“organic frameworks cladding optical fibers. Nanoscale, 2020, 12, 9991-10000.	5.6	25
18	A multifunctional wearable E-textile via integrated nanowire-coated fabrics. Journal of Materials Chemistry C, 2020, 8, 8399-8409.	5.5	64

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19	Graphene electrodes for electric poling of electro-optic polymer films. Optics Letters, 2020, 45, 2383.	3.3	10
20	Photo-bleaching to enhance the sensitivity of Mach-Zehnder interferometer waveguide for explosive detection. , 2020, , .		0
21	Optofluidic laser explosive sensor with ultralow detection limit and large dynamic range using donor-acceptor-donor organic dye. Sensors and Actuators B: Chemical, 2019, 298, 126830.	7.8	14
22	A photochromic dye doped polymeric Machâ€“Zehnder interferometer for UV light detection. Journal of Materials Chemistry C, 2019, 7, 6257-6265.	5.5	21
23	Monolithic nonlinear optical chromophores with extended conjugate bridge: Large refractive index, high thermal and electro-optic stability. Dyes and Pigments, 2019, 164, 97-104.	3.7	15
24	Design, synthesis, and properties of nonlinear optical chromophores based on a verbenone bridge with a novel dendritic acceptor. Journal of Materials Chemistry C, 2018, 6, 2840-2847.	5.5	26
25	Ultra-efficient and stable electro-optic dendrimers containing supramolecular homodimers of semifluorinated dipolar aromatics. Materials Chemistry Frontiers, 2018, 2, 901-909.	5.9	49
26	Structureâ€“property analysis of julolidine-based nonlinear optical chromophores for the optimization of microscopic and macroscopic nonlinearity. Physical Chemistry Chemical Physics, 2018, 20, 23606-23615.	2.8	26
27	Ultra-efficient and stable EO dendrimers containing supramolecular homodimers of dipolar semifluorinated aromatics. , 2018, , .		1
28	Site-isolation of nonlinear optical chromophores to suppress the dipole-dipole interactions for improved electro-optic performance. Materials Letters, 2017, 199, 72-74.	2.6	5
29	Tuning the strength of intramolecular charge-transfer of triene-based nonlinear optical dyes for electro-optics and optofluidic lasers. Journal of Materials Chemistry C, 2017, 5, 7472-7478.	5.5	38
30	Ultra-broadband mode converters based on length-apodized long-period waveguide gratings. Optics Express, 2017, 25, 14341.	3.4	38
31	PCBM-doped electro-optic materials: investigation of dielectric, optical and electro-optic properties for highly efficient poling. Journal of Materials Chemistry C, 2016, 4, 10286-10292.	5.5	40
32	Introduction of fluorine to change the dielectric environment of nonlinear optical chromophores for improved electro-optic activities. Materials Letters, 2016, 164, 636-639.	2.6	12
33	Low-power variable optical attenuator based on a hybrid SiONâ€“polymer S-bend waveguide. Applied Optics, 2016, 55, 969.	2.1	16
34	Poling efficiency enhancement of tethered binary nonlinear optical chromophores for achieving an ultrahigh n³r₃₃ figure-of-merit of 2601 pm V^{â^'1}. Journal of Materials Chemistry C, 2015, 3, 6737-6744.	5.5	36
35	Facile bromine-termination of nonlinear optical chromophore: remarkable optimization in photophysical properties, surface morphology and electro-optic activity. RSC Advances, 2015, 5, 102108-102114.	3.6	15
36	Donor modification of nonlinear optical chromophores: Synthesis, characterization, and fine-tuning of chromophores' mobility and steric hindrance to achieve ultra large electro-optic coefficients in guestâ€“host electro-optic materials. Dyes and Pigments, 2014, 104, 15-23.	3.7	97

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37	Comparison of nonlinear optical chromophores containing different conjugated electron-bridges: the relationship between molecular structure-properties and macroscopic electro-optic activities of materials. RSC Advances, 2014, 4, 49737-49744.	3.6	43
38	A nunchaku-like nonlinear optical chromophore for improved temporal stability of guestâ€“host electro-optic materials. Dyes and Pigments, 2013, 99, 753-758.	3.7	25
39	Synthesis and characterization of novel electro-optic chromophores based on 4-hydroxycarbazole. Materials Letters, 2013, 97, 117-120.	2.6	14
40	Facile synthesis and electroâ€optic activities of new polycarbonates containing tricyanofuranâ€based nonlinear optical chromophores. Journal of Polymer Science Part A, 2013, 51, 2841-2849.	2.3	30
41	Synthesis and optical properties of new fluorinated second-order nonlinear optical copolymers: an attempt toward the balance between solubility and long-term alignment stability. Polymer Chemistry, 2013, 4, 2703.	3.9	40
42	Synthesis and nonlinear optical properties of novel yâ€type polyurethanes containing different concentrations of chromophore. Journal of Applied Polymer Science, 2013, 128, 2694-2700.	2.6	7
43	Synthesis of novel nonlinear optical chromophore to achieve ultrahigh electro-optic activity. Chemical Communications, 2012, 48, 9637.	4.1	95
44	Enhanced electro-optic coefficient (r₃₃) in nonlinear optical chromospheres with novel donor structure. RSC Advances, 2012, 2, 1416-1423.	3.6	67