

# 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	High-performance organic second- and third-order nonlinear optical materials for ultrafast information processing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15009-15026.	5.5	117
2	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 guest-host electro-optic materials. <i>Dyes and Pigments</i> , 2014, 104, 15-23.	3.7	97
3	Synthesis of novel nonlinear optical chromophore to achieve ultrahigh electro-optic activity. <i>Chemical Communications</i> , 2012, 48, 9637.	4.1	95
4	Enhanced electro-optic coefficient ( $r_{33}$ ) in nonlinear optical chromospheres with novel donor structure. <i>RSC Advances</i> , 2012, 2, 1416-1423.	3.6	67
5	A multifunctional wearable E-textile <i>via</i> integrated nanowire-coated fabrics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8399-8409.	5.5	64
6	Ultra-efficient and stable electro-optic dendrimers containing supramolecular homodimers of semifluorinated dipolar aromatics. <i>Materials Chemistry Frontiers</i> , 2018, 2, 901-909.	5.9	49
7	Comparison of nonlinear optical chromophores containing different conjugated electron-bridges: the relationship between molecular structure-properties and macroscopic electro-optic activities of materials. <i>RSC Advances</i> , 2014, 4, 49737-49744.	3.6	43
8	$\text{AXHg}_3\text{P}_2\text{S}_8$ (A = Rb, Cs; X = Cl, Br): New Excellent Infrared Nonlinear Optical Materials with Mixed Anion Chalcogenide Groups of Trigonal Planar $[\text{HgS}_2\text{X}]_3$ and Tetrahedral $[\text{HgS}_3\text{X}]_5$ . <i>Advanced Optical Materials</i> , 2021, 9, 2100563.	7.3	41
9	Synthesis and optical properties of new fluorinated second-order nonlinear optical copolymers: an attempt toward the balance between solubility and long-term alignment stability. <i>Polymer Chemistry</i> , 2013, 4, 2703.	3.9	40
10	PCBM-doped electro-optic materials: investigation of dielectric, optical and electro-optic properties for highly efficient poling. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10286-10292.	5.5	40
11	Tuning the strength of intramolecular charge-transfer of triene-based nonlinear optical dyes for electro-optics and optofluidic lasers. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7472-7478.	5.5	38
12	Ultra-broadband mode converters based on length-apodized long-period waveguide gratings. <i>Optics Express</i> , 2017, 25, 14341.	3.4	38
13	Poling efficiency enhancement of tethered binary nonlinear optical chromophores for achieving an ultrahigh $n^3r_{33}$ figure-of-merit of 2601 pm $\text{V}^{-1}$ . <i>Journal of Materials Chemistry C</i> , 2015, 3, 6737-6744.	5.5	36
14	Facile synthesis and electro-optic activities of new polycarbonates containing tricyanofuran-based nonlinear optical chromophores. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2841-2849.	2.3	30
15	Design, synthesis, and properties of nonlinear optical chromophores based on a verbenone bridge with a novel dendritic acceptor. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2840-2847.	5.5	26
16	Structure-property analysis of julolidine-based nonlinear optical chromophores for the optimization of microscopic and macroscopic nonlinearity. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23606-23615.	2.8	26
17	$\text{EuHgGeSe}_4$ and $\text{EuHgSnS}_4$ : Two Quaternary Eu-Based Infrared Nonlinear Optical Materials with Strong Second-Harmonic-Generation Responses. <i>Inorganic Chemistry</i> , 2020, 59, 18452-18460.	4.0	26
18	A nunchaku-like nonlinear optical chromophore for improved temporal stability of guest-host electro-optic materials. <i>Dyes and Pigments</i> , 2013, 99, 753-758.	3.7	25

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19	Nanoscale light-matter interactions in metal-organic frameworks cladding optical fibers. <i>Nanoscale</i> , 2020, 12, 9991-10000.	5.6	25
20	A photochromic dye doped polymeric Mach-Zehnder interferometer for UV light detection. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6257-6265.	5.5	21
21	Low-Cost and Highly Sensitive Liquid Refractive Index Sensor Based on Polymer Horizontal Slot Waveguide. <i>Photonic Sensors</i> , 2020, 10, 7-15.	5.0	18
22	Low-power variable optical attenuator based on a hybrid SiON-polymer S-bend waveguide. <i>Applied Optics</i> , 2016, 55, 969.	2.1	16
23	Investigation into Structural Variation from 3D to 1D and Strong Second Harmonic Generation of the $AHgPS_4$ ( $A^{sup}+</sup> = Na^{sup}+</sup>, K^{sup}+</sup>, Rb^{sup}+</sup>), Tj ETQq1 1 0.7843 140gBT / Overlock 10$	4.0	10
24	Facile bromine-termination of nonlinear optical chromophore: remarkable optimization in photophysical properties, surface morphology and electro-optic activity. <i>RSC Advances</i> , 2015, 5, 102108-102114.	3.6	15
25	Monolithic nonlinear optical chromophores with extended conjugate bridge: Large refractive index, high thermal and electro-optic stability. <i>Dyes and Pigments</i> , 2019, 164, 97-104.	3.7	15
26	Polymer waveguide Mach-Zehnder interferometer coated with dipolar polycarbonate for on-chip nitroaromatics detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127406.	7.8	15
27	Synthesis and characterization of novel electro-optic chromophores based on 4-hydroxycarbazole. <i>Materials Letters</i> , 2013, 97, 117-120.	2.6	14
28	Optofluidic laser explosive sensor with ultralow detection limit and large dynamic range using donor-acceptor-donor organic dye. <i>Sensors and Actuators B: Chemical</i> , 2019, 298, 126830.	7.8	14
29	The synthesis of second-order nonlinear optical chromophores with conjugated steric hindrance for electro-optics at 850 nm. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5494-5500.	5.5	13
30	Systematic study of the structure-property relationship of a series of near-infrared absorbing push-pull heptamethine chromophores for electro-optics. <i>Science China Chemistry</i> , 2021, 64, 263-273.	8.2	13
31	Lab on optical fiber: surface nano-functionalization for real-time monitoring of VOC adsorption/desorption in metal-organic frameworks. <i>Nanophotonics</i> , 2021, 10, 2705-2716.	6.0	13
32	Structural modification from centrosymmetric $Rb_4Hg_2Ge_2S_8$ to noncentrosymmetric $(Na_3Rb)Hg_2Ge_2S_8$ : mixed alkali metals strategy for infrared nonlinear optical material design. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3300-3306.	5.5	13
33	Introduction of fluorine to change the dielectric environment of nonlinear optical chromophores for improved electro-optic activities. <i>Materials Letters</i> , 2016, 164, 636-639.	2.6	12
34	On-chip integration of a metal-organic framework nanomaterial on a $SiO_2$ waveguide for sensitive VOC sensing. <i>Lab on A Chip</i> , 2021, 21, 3298-3306.	6.0	10
35	Graphene electrodes for electric poling of electro-optic polymer films. <i>Optics Letters</i> , 2020, 45, 2383.	3.3	10
36	Synthesis and nonlinear optical properties of novel $\gamma$ -type polyurethanes containing different concentrations of chromophore. <i>Journal of Applied Polymer Science</i> , 2013, 128, 2694-2700.	2.6	7

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37	Photo-bleaching of optical waveguide polymers with dipolar chromophores to improve their sensitivity for explosive vapor detection. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13010-13018.	5.5	6
38	SrAgAsS <sub>4</sub> : A Noncentrosymmetric Sulfide with Good Infrared Nonlinear Optical Performance Induced by Aliovalent Substitution from Centrosymmetric SrGa <sub>2</sub> S <sub>4</sub> . <i>Inorganic Chemistry</i> , 2022, 61, 9205-9212.	4.0	6
39	Site-isolation of nonlinear optical chromophores to suppress the dipole-dipole interactions for improved electro-optic performance. <i>Materials Letters</i> , 2017, 199, 72-74.	2.6	5
40	Design of a Low-Crosstalk Sub-Wavelength-Pitch Silicon Waveguide Array for Optical Phased Array. <i>IEEE Photonics Journal</i> , 2021, 13, 1-8.	2.0	3
41	Ultra-efficient and stable EO dendrimers containing supramolecular homodimers of dipolar semifluorinated aromatics. , 2018, , .		1
42	The synthesis and structure-property relation analysis of metal chalcogenide crystals Cs <sub>2</sub> InPS <sub>4</sub> X <sub>2</sub> (X = Cl, Br) with mixed anions. <i>Dalton Transactions</i> , 2022, 51, 4728-4733.	3.3	1
43	Photo-bleaching to enhance the sensitivity of Mach-Zehnder interferometer waveguide for explosive detection. , 2020, , .		0
44	SiO <sub>2</sub> waveguide based Mach-Zehnder interferometer with nanoporous ZIF-8 for sensitive VOC detection. , 2021, , .		0