

# Jiancan Yu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2261950/publications.pdf>

Version: 2024-02-01

87  
papers

9,186  
citations

61984

43  
h-index

46799

89  
g-index

90  
all docs

90  
docs citations

90  
times ranked

11234  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Luminescent Mixed-Lanthanide Metal-Organic Framework Thermometer. <i>Journal of the American Chemical Society</i> , 2012, 134, 3979-3982.	13.7	1,033
2	Dual-Emitting MOF-Dye Composite for Ratiometric Temperature Sensing. <i>Advanced Materials</i> , 2015, 27, 1420-1425.	21.0	604
3	Confinement of pyridinium hemicyanine dye within an anionic metal-organic framework for two-photon-pumped lasing. <i>Nature Communications</i> , 2013, 4, 2719.	12.8	381
4	3D Printed Photoresponsive Devices Based on Shape Memory Composites. <i>Advanced Materials</i> , 2017, 29, 1701627.	21.0	370
5	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. <i>Advanced Materials</i> , 2018, 30, e1706589.	21.0	349
6	Luminescent Metal-Organic Framework Films As Highly Sensitive and Fast-Response Oxygen Sensors. <i>Journal of the American Chemical Society</i> , 2014, 136, 5527-5530.	13.7	319
7	Thickness-Gradient Films for High Gauge Factor Stretchable Strain Sensors. <i>Advanced Materials</i> , 2015, 27, 6230-6237.	21.0	300
8	Gesture recognition using a bioinspired learning architecture that integrates visual data with somatosensory data from stretchable sensors. <i>Nature Electronics</i> , 2020, 3, 563-570.	26.0	298
9	Second-Order Nonlinear Optical Activity Induced by Ordered Dipolar Chromophores Confined in the Pores of an Anionic Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10542-10545.	13.8	279
10	Suspended Wavy Graphene Microribbons for Highly Stretchable Microsupercapacitors. <i>Advanced Materials</i> , 2015, 27, 5559-5566.	21.0	268
11	Dye Encapsulated Metal-Organic Framework for Warm-White LED with High Color-Rendering Index. <i>Advanced Functional Materials</i> , 2015, 25, 4796-4802.	14.9	260
12	A porous Zr-cluster-based cationic metal-organic framework for highly efficient Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup> removal from water. <i>Chemical Communications</i> , 2015, 51, 14732-14734.	4.1	234
13	Soft Thermal Sensor with Mechanical Adaptability. <i>Advanced Materials</i> , 2016, 28, 9175-9181.	21.0	201
14	Broadband Extrinsic Self-Trapped Exciton Emission in Sn-Doped 2D Lead-Halide Perovskites. <i>Advanced Materials</i> , 2019, 31, e1806385.	21.0	198
15	A ratiometric and colorimetric luminescent thermometer over a wide temperature range based on a lanthanide coordination polymer. <i>Chemical Communications</i> , 2014, 50, 719-721.	4.1	192
16	Two-Photon Responsive Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2015, 137, 4026-4029.	13.7	185
17	A Low Cytotoxic Cationic Metal-Organic Framework Carrier for Controllable Drug Release. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 5679-5685.	6.4	177
18	Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture. <i>Advanced Materials</i> , 2016, 28, 1559-1566.	21.0	173

#	ARTICLE	IF	CITATIONS
19	High-Adhesion Stretchable Electrodes Based on Nanopile Interlocking. <i>Advanced Materials</i> , 2017, 29, 1603382.	21.0	168
20	Polarized three-photon-pumped laser in a single MOF microcrystal. <i>Nature Communications</i> , 2016, 7, 11087.	12.8	165
21	A microporous metal-organic framework with both open metal and Lewis basic pyridyl sites for high C <sub>2</sub> H <sub>2</sub> and CH <sub>4</sub> storage at room temperature. <i>Chemical Communications</i> , 2013, 49, 6719.	4.1	158
22	A porous metal-organic framework with -COOH groups for highly efficient pollutant removal. <i>Chemical Communications</i> , 2014, 50, 14455-14458.	4.1	154
23	A luminescent nanoscale metal-organic framework with controllable morphologies for spore detection. <i>Chemical Communications</i> , 2012, 48, 7377.	4.1	146
24	Highly Stretchable, Compliant, Polymeric Microelectrode Arrays for In Vivo Electrophysiological Interfacing. <i>Advanced Materials</i> , 2017, 29, 1702800.	21.0	144
25	Design and Synthesis of an MOF Thermometer with High Sensitivity in the Physiological Temperature Range. <i>Inorganic Chemistry</i> , 2015, 54, 11193-11199.	4.0	130
26	An Artificial Somatic Reflex Arc. <i>Advanced Materials</i> , 2020, 32, e1905399.	21.0	126
27	Confinement of Perovskite-QDs within a Single MOF Crystal for Significantly Enhanced Multiphoton Excited Luminescence. <i>Advanced Materials</i> , 2019, 31, e1806897.	21.0	124
28	Mediating Short-Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. <i>Advanced Materials</i> , 2018, 30, e1706395.	21.0	100
29	A Doubly Interpenetrated Metal-Organic Framework with Open Metal Sites and Suitable Pore Sizes for Highly Selective Separation of Small Hydrocarbons at Room Temperature. <i>Crystal Growth and Design</i> , 2013, 13, 2094-2097.	3.0	96
30	Highly Stable and Stretchable Conductive Films through Thermal-Radiation-Assisted Metal Encapsulation. <i>Advanced Materials</i> , 2019, 31, e1901360.	21.0	96
31	Self-Protection of Electrochemical Storage Devices via a Thermal Reversible Sol-Gel Transition. <i>Advanced Materials</i> , 2015, 27, 5593-5598.	21.0	94
32	3D-Structured Stretchable Strain Sensors for Out-of-Plane Force Detection. <i>Advanced Materials</i> , 2018, 30, e1707285.	21.0	86
33	A new fluorescent and colorimetric probe for trace hydrazine with a wide detection range in aqueous solution. <i>Dyes and Pigments</i> , 2013, 99, 966-971.	3.7	83
34	Alcohol-Mediated Resistance-Switching Behavior in Metal-Organic Framework-Based Electronic Devices. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8884-8888.	13.8	72
35	Enhancing the Matrix Addressing of Flexible Sensory Arrays by a Highly Nonlinear Threshold Switch. <i>Advanced Materials</i> , 2018, 30, e1802516.	21.0	70
36	Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. <i>Advanced Materials</i> , 2017, 29, 1701780.	21.0	68

#	ARTICLE	IF	CITATIONS
37	Low Cytotoxic Metal-Organic Frameworks as Temperature-Responsive Drug Carriers. <i>ChemPlusChem</i> , 2016, 81, 804-810.	2.8	67
38	A microporous metal-organic framework of a rare sty topology for high CH <sub>4</sub> storage at room temperature. <i>Chemical Communications</i> , 2013, 49, 2043.	4.1	61
39	A new fluorescent probe for distinguishing Zn <sup>2+</sup> and Cd <sup>2+</sup> with high sensitivity and selectivity. <i>Dalton Transactions</i> , 2013, 42, 11465.	3.3	58
40	Artificial Neural Pathway Based on a Memristor Synapse for Optically Mediated Motion Learning. <i>ACS Nano</i> , 2022, 16, 9691-9700.	14.6	47
41	Encapsulation of dyes in metal-organic frameworks and their tunable nonlinear optical properties. <i>Dalton Transactions</i> , 2016, 45, 4218-4223.	3.3	45
42	Tactile Chemomechanical Transduction Based on an Elastic Microstructured Array to Enhance the Sensitivity of Portable Biosensors. <i>Advanced Materials</i> , 2019, 31, e1803883.	21.0	45
43	Two Chiral Nonlinear Optical Coordination Networks Based on Interwoven Two-Dimensional Square Grids of Double Helices. <i>Crystal Growth and Design</i> , 2010, 10, 5291-5296.	3.0	44
44	An indanone-based alkoxy silane dye with second order nonlinear optical properties. <i>Dyes and Pigments</i> , 2009, 81, 53-57.	3.7	41
45	Solvent effect on two-photon absorption (TPA) of three novel dyes with large TPA cross-section and red emission. <i>Dyes and Pigments</i> , 2013, 97, 58-64.	3.7	41
46	Three-dimensional copper (II) metal-organic framework with open metal sites and anthracene nucleus for highly selective C <sub>2</sub> H <sub>2</sub> /CH <sub>4</sub> and C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> gas separation at room temperature. <i>Microporous and Mesoporous Materials</i> , 2013, 181, 99-104.	4.4	40
47	Enhancement of nonlinear optical activity in new six-branched dendritic dipolar chromophore. <i>Journal of Materials Chemistry</i> , 2011, 21, 3197.	6.7	38
48	Preparation and thiols sensing of luminescent metal-organic framework films functionalized with lanthanide ions. <i>Microporous and Mesoporous Materials</i> , 2013, 179, 198-204.	4.4	38
49	A new fluorescent probe for Zn <sup>2+</sup> with red emission and its application in bioimaging. <i>Dalton Transactions</i> , 2014, 43, 8048-8053.	3.3	37
50	A new microporous metal-organic framework with open metal sites and exposed carboxylic acid groups for selective separation of CO <sub>2</sub> /CH <sub>4</sub> and C <sub>2</sub> H <sub>2</sub> /CH <sub>4</sub> . <i>RSC Advances</i> , 2014, 4, 36419.	3.6	37
51	A fluorescent pH chemosensor for strongly acidic conditions based on the intramolecular charge transfer (ICT) effect. <i>RSC Advances</i> , 2013, 3, 4872.	3.6	35
52	Correlating the Surface Basicity of Metal Oxides with Photocatalytic Hydroxylation of Boronic Acids to Alcohols. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9780-9784.	13.8	33
53	A series of multifunctional coordination polymers based on terpyridine and zinc halide: second-harmonic generation and two-photon absorption properties and intracellular imaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5458-5463.	5.8	31
54	A novel 2,6-dicarbonylpyridine-based fluorescent chemosensor for Co <sup>2+</sup> with high selectivity and sensitivity. <i>Analyst</i> , The, 2011, 136, 5283.	3.5	30

#	ARTICLE	IF	CITATIONS
55	A new highly selective and sensitive fluorescent probe for Zn <sup>2+</sup> and its application in cell-imaging. <i>Dyes and Pigments</i> , 2014, 107, 45-50.	3.7	27
56	Periodically Aligned Dye Molecules Integrated in a Single MOF Microcrystal Exhibit Single-Mode Linearly Polarized Lasing. <i>Advanced Optical Materials</i> , 2017, 5, 1601040.	7.3	27
57	Molecular Design and Synthesis of Hetero-trichromophore for Enhanced Nonlinear Optical Activity. <i>Macromolecules</i> , 2009, 42, 2198-2203.	4.8	25
58	Six-branched chromophores with isolation groups: synthesis and enhanced optical nonlinearity. <i>Journal of Materials Chemistry</i> , 2012, 22, 9202.	6.7	25
59	Enhanced Optical Nonlinearity and Improved Transparency of Inorganic-Organic Hybrid Materials Containing Benzimidazole Chromophores. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14877-14883.	2.6	23
60	Assembly and tunable luminescence of lanthanide-organic frameworks constructed from 4-(3,5-dicarboxyphenyl)pyridine-2,6-dicarboxylate ligand. <i>Journal of Alloys and Compounds</i> , 2013, 551, 616-620.	5.5	23
61	A NbO type microporous metal-organic framework constructed from a naphthalene derived ligand for CH <sub>4</sub> and C <sub>2</sub> H <sub>2</sub> storage at room temperature. <i>RSC Advances</i> , 2014, 4, 49457-49461.	3.6	23
62	Preparation and Gas Separation Properties of Metal-Organic Framework Membranes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 792-796.	1.2	22
63	Syntheses, structures and tunable luminescence of lanthanide metal-organic frameworks based on azole-containing carboxylic acid ligand. <i>Journal of Solid State Chemistry</i> , 2015, 230, 287-292.	2.9	21
64	A Noninterpenetrated Metal-Organic Framework Built from an Enlarged Tetracarboxylic Acid for Small Hydrocarbon Separation. <i>Crystal Growth and Design</i> , 2015, 15, 4071-4074.	3.0	21
65	Alcohol-Mediated Resistance-Switching Behavior in Metal-Organic Framework-Based Electronic Devices. <i>Angewandte Chemie</i> , 2016, 128, 9030-9034.	2.0	19
66	A new anionic metal-organic framework for highly efficient removal of cationic pollutant in water. <i>Materials Letters</i> , 2016, 185, 177-180.	2.6	17
67	Synthesis and luminescence behavior of inorganic-organic hybrid materials covalently bound with pyran-containing dyes. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 52, 362-369.	2.4	16
68	CoFe <sub>2</sub> O <sub>4</sub> Nanocrystals Mediated Crystallization Strategy for Magnetic Functioned ZSM-5 Catalysts. <i>Advanced Functional Materials</i> , 2018, 28, 1802088.	14.9	15
69	A 3-phenoxypropane-1, 2-diol based bichromophore for enhanced nonlinear optical properties. <i>Dyes and Pigments</i> , 2010, 87, 204-208.	3.7	13
70	Facile preparation of continuous indium metal-organic framework thin films on indium tin oxide glass. <i>Thin Solid Films</i> , 2013, 544, 296-300.	1.8	13
71	Dual-band simultaneous lasing in MOFs single crystals with Fabry-Perot microcavities. <i>Science China Chemistry</i> , 2019, 62, 987-993.	8.2	13
72	Synthesis of phenyltetraene chromophores-based hybrid materials for large nonlinear optical activity. <i>Dyes and Pigments</i> , 2013, 98, 377-383.	3.7	12

#	ARTICLE	IF	CITATIONS
73	Preparation of polymer films containing multi-branched chromophores for enhanced nonlinear optical activity. <i>Dyes and Pigments</i> , 2017, 136, 791-797.	3.7	12
74	Large nonlinear optical activity from hybrid inorganic-organic films with fluorinated benzene as isolation group. <i>Thin Solid Films</i> , 2013, 544, 407-411.	1.8	11
75	Synthesis and NLO properties of hybrid inorganic-organic films containing thiophene ring. <i>Thin Solid Films</i> , 2009, 517, 5075-5078.	1.8	10
76	Low Cytotoxic Metal-Organic Frameworks as Temperature-Responsive Drug Carriers. <i>ChemPlusChem</i> , 2016, 81, 668-668.	2.8	10
77	Correlating the Surface Basicity of Metal Oxides with Photocatalytic Hydroxylation of Boronic Acids to Alcohols. <i>Angewandte Chemie</i> , 2018, 130, 9928-9932.	2.0	8
78	Preparation and electro-optic properties of hybrid sol-gel films containing imidazole chromophore. <i>Materials Letters</i> , 2009, 63, 2594-2596.	2.6	7
79	Strain-Enabled Phase Transition of Periodic Metasurfaces. <i>Advanced Materials</i> , 2022, 34, e2102560.	21.0	7
80	Design and synthesis of bichromophores for nonlinear optical applications in polymer films. <i>Reactive and Functional Polymers</i> , 2011, 71, 496-501.	4.1	6
81	Synthesis, Structures and Luminescent Properties of Two Coordination Polymers Based on 5-(4-Carboxyphenyl)-2,6-Pyridinedicarboxylic Acid. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 430-434.	1.2	5
82	Preparation and nonlinear optical properties of hybrid films containing dicyanomethylenepyran-based chromophores. <i>Thin Solid Films</i> , 2011, 519, 5061-5065.	1.8	4
83	Mechanically tunable organic vertical-cavity surface emitting lasers (VCSELs) for highly sensitive stress probing in dual-modes. <i>Optics Express</i> , 2015, 23, 4385.	3.4	4
84	Memory Arrays: Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture ( <i>Adv. Mater.</i> 8/2016). <i>Advanced Materials</i> , 2016, 28, 1526-1526.	21.0	3
85	White Light: Dye Encapsulated Metal-Organic Framework for Warm-White LED with High Color-Rendering Index ( <i>Adv. Funct. Mater.</i> 30/2015). <i>Advanced Functional Materials</i> , 2015, 25, 4795-4795.	14.9	2
86	Inorganic-organic hybrid nonlinear optical films containing thiophene-vinyl conjugated chromophore. <i>Thin Solid Films</i> , 2011, 519, 5056-5060.	1.8	1
87	Hybrid inorganic-organic films with Benzaldehyde-based chromophore for electro-optic device. , 2010, , .		0