Jiancan Yu

List of Publications by Year in descending order

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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	Strainâ€Enabled Phase Transition of Periodic Metasurfaces. Advanced Materials, 2022, 34, e2102560.	21.0	7
2	Artificial Neural Pathway Based on a Memristor Synapse for Optically Mediated Motion Learning. ACS Nano, 2022, 16, 9691-9700.	14.6	47
3	An Artificial Somatic Reflex Arc. Advanced Materials, 2020, 32, e1905399.	21.0	126
4	Gesture recognition using a bioinspired learning architecture that integrates visual data with somatosensory data from stretchable sensors. Nature Electronics, 2020, 3, 563-570.	26.0	298
5	Broadband Extrinsic Selfâ€Trapped Exciton Emission in Snâ€Doped 2D Leadâ€Halide Perovskites. Advanced Materials, 2019, 31, e1806385.	21.0	198
6	Highly Stable and Stretchable Conductive Films through Thermalâ€Radiationâ€Assisted Metal Encapsulation. Advanced Materials, 2019, 31, e1901360.	21.0	96
7	Dual-band simultaneous lasing in MOFs single crystals with Fabry-Perot microcavities. Science China Chemistry, 2019, 62, 987-993.	8.2	13
8	Tactile Chemomechanical Transduction Based on an Elastic Microstructured Array to Enhance the Sensitivity of Portable Biosensors. Advanced Materials, 2019, 31, e1803883.	21.0	45
9	Confinement of Perovskiteâ€QDs within a Single MOF Crystal for Significantly Enhanced Multiphoton Excited Luminescence. Advanced Materials, 2019, 31, e1806897.	21.0	124
10	Auxetic Mechanical Metamaterials to Enhance Sensitivity of Stretchable Strain Sensors. Advanced Materials, 2018, 30, e1706589.	21.0	349
11	Mediating Shortâ€Term Plasticity in an Artificial Memristive Synapse by the Orientation of Silica Mesopores. Advanced Materials, 2018, 30, e1706395.	21.0	100
12	3Dâ€Structured Stretchable Strain Sensors for Outâ€ofâ€Plane Force Detection. Advanced Materials, 2018, 30, e1707285.	21.0	86
13	Enhancing the Matrix Addressing of Flexible Sensory Arrays by a Highly Nonlinear Threshold Switch. Advanced Materials, 2018, 30, e1802516.	21.0	70
14	CoFe₂O₄ Nanocrystals Mediated Crystallization Strategy for Magnetic Functioned ZSMâ€5 Catalysts. Advanced Functional Materials, 2018, 28, 1802088.	14.9	15
15	Correlating the Surface Basicity of Metal Oxides with Photocatalytic Hydroxylation of Boronic Acids to Alcohols. Angewandte Chemie - International Edition, 2018, 57, 9780-9784.	13.8	33
16	Correlating the Surface Basicity of Metal Oxides with Photocatalytic Hydroxylation of Boronic Acids to Alcohols. Angewandte Chemie, 2018, 130, 9928-9932.	2.0	8
17	Periodically Aligned Dye Molecules Integrated in a Single MOF Microcrystal Exhibit Singleâ€Mode Linearly Polarized Lasing. Advanced Optical Materials, 2017, 5, 1601040.	7.3	27
18	A series of multifunctional coordination polymers based on terpyridine and zinc halide: second-harmonic generation and two-photon absorption properties and intracellular imaging. Journal of Materials Chemistry B, 2017, 5, 5458-5463.	5.8	31

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19	Stretchable Motion Memory Devices Based on Mechanical Hybrid Materials. Advanced Materials, 2017, 29, 1701780.	21.0	68
20	3D Printed Photoresponsive Devices Based on Shape Memory Composites. Advanced Materials, 2017, 29, 1701627.	21.0	370
21	Highâ€Adhesion Stretchable Electrodes Based on Nanopile Interlocking. Advanced Materials, 2017, 29, 1603382.	21.0	168
22	Preparation of polymer films containing multi-branched chromophores for enhanced nonlinear optical activity. Dyes and Pigments, 2017, 136, 791-797.	3.7	12
23	Highly Stretchable, Compliant, Polymeric Microelectrode Arrays for In Vivo Electrophysiological Interfacing. Advanced Materials, 2017, 29, 1702800.	21.0	144
24	Alcoholâ€Mediated Resistanceâ€Switching Behavior in Metalâ€“Organic Frameworkâ€Based Electronic Devices. Angewandte Chemie, 2016, 128, 9030-9034.	2.0	19
25	Low Cytotoxic Metalâ€“Organic Frameworks as Temperatureâ€Responsive Drug Carriers. ChemPlusChem, 2016, 81, 804-810.	2.8	67
26	Alcoholâ€Mediated Resistanceâ€Switching Behavior in Metalâ€“Organic Frameworkâ€Based Electronic Devices. Angewandte Chemie - International Edition, 2016, 55, 8884-8888.	13.8	72
27	Memory Arrays: Skin-Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture (Adv. Mater. 8/2016). Advanced Materials, 2016, 28, 1526-1526.	21.0	3
28	Low Cytotoxic Metal-Organic Frameworks as Temperature-Responsive Drug Carriers. ChemPlusChem, 2016, 81, 668-668.	2.8	10
29	Soft Thermal Sensor with Mechanical Adaptability. Advanced Materials, 2016, 28, 9175-9181.	21.0	201
30	A new anionic metal-organic framework for highly efficient removal of cationic pollutant in water. Materials Letters, 2016, 185, 177-180.	2.6	17
31	Polarized three-photon-pumped laser in a single MOF microcrystal. Nature Communications, 2016, 7, 11087.	12.8	165
32	Skinâ€Inspired Haptic Memory Arrays with an Electrically Reconfigurable Architecture. Advanced Materials, 2016, 28, 1559-1566.	21.0	173
33	Encapsulation of dyes in metalâ€“organic frameworks and their tunable nonlinear optical properties. Dalton Transactions, 2016, 45, 4218-4223.	3.3	45
34	Dye Encapsulated Metalâ€Organic Framework for Warmâ€White LED with High Colorâ€Rendering Index. Advanced Functional Materials, 2015, 25, 4796-4802.	14.9	260
35	Selfâ€Protection of Electrochemical Storage Devices via a Thermal Reversible Solâ€“Gel Transition. Advanced Materials, 2015, 27, 5593-5598.	21.0	94
36	Thicknessâ€Gradient Films for High Gauge Factor Stretchable Strain Sensors. Advanced Materials, 2015, 27, 6230-6237.	21.0	300

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37	Design and Synthesis of an MOF Thermometer with High Sensitivity in the Physiological Temperature Range. Inorganic Chemistry, 2015, 54, 11193-11199.	4.0	130
38	Preparation and Gas Separation Properties of Metalâ€Organic Framework Membranes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 792-796.	1.2	22
39	Dualâ€Emitting MOFâŠƒDye Composite for Ratiometric Temperature Sensing. Advanced Materials, 2015, 27, 1420-1425.	21.0	604
40	Syntheses, structures and tunable luminescence of lanthanide metal-organic frameworks based on azole-containing carboxylic acid ligand. Journal of Solid State Chemistry, 2015, 230, 287-292.	2.9	21
41	A Noninterpenetrated Metalâ€“Organic Framework Built from an Enlarged Tetracarboxylic Acid for Small Hydrocarbon Separation. Crystal Growth and Design, 2015, 15, 4071-4074.	3.0	21
42	Two-Photon Responsive Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 4026-4029.	13.7	185
43	Mechanically tunable organic vertical-cavity surface emitting lasers (VCSELs) for highly sensitive stress probing in dual-modes. Optics Express, 2015, 23, 4385.	3.4	4
44	A porous Zr-cluster-based cationic metalâ€“organic framework for highly efficient Cr₂O₇^{2â^’} removal from water. Chemical Communications, 2015, 51, 14732-14734.	4.1	234
45	White Light: Dye Encapsulated Metalâ€Organic Framework for Warmâ€White LED with High Colorâ€Rendering Index (Adv. Funct. Mater. 30/2015). Advanced Functional Materials, 2015, 25, 4795-4795.	14.9	2
46	Suspended Wavy Graphene Microribbons for Highly Stretchable Microsupercapacitors. Advanced Materials, 2015, 27, 5559-5566.	21.0	268
47	A new highly selective and sensitive fluorescent probe for Zn2+ and its application in cell-imaging. Dyes and Pigments, 2014, 107, 45-50.	3.7	27
48	A new fluorescent probe for Zn²⁺with red emission and its application in bioimaging. Dalton Transactions, 2014, 43, 8048-8053.	3.3	37
49	A ratiometric and colorimetric luminescent thermometer over a wide temperature range based on a lanthanide coordination polymer. Chemical Communications, 2014, 50, 719-721.	4.1	192
50	A NbO type microporous metalâ€“organic framework constructed from a naphthalene derived ligand for CH₄and C₂H₂storage at room temperature. RSC Advances, 2014, 4, 49457-49461.	3.6	23
51	A porous metalâ€“organic framework with â€“COOH groups for highly efficient pollutant removal. Chemical Communications, 2014, 50, 14455-14458.	4.1	154
52	Luminescent Metalâ€“Organic Framework Films As Highly Sensitive and Fast-Response Oxygen Sensors. Journal of the American Chemical Society, 2014, 136, 5527-5530.	13.7	319
53	A new microporous metalâ€“organic framework with open metal sites and exposed carboxylic acid groups for selective separation of CO₂/CH₄and C₂H₂/CH₄. RSC Advances, 2014, 4, 36419.	3.6	37
54	A Low Cytotoxic Cationic Metalâ€“Organic Framework Carrier for Controllable Drug Release. Journal of Medicinal Chemistry, 2014, 57, 5679-5685.	6.4	177

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55	A fluorescent pH chemosensor for strongly acidic conditions based on the intramolecular charge transfer (ICT) effect. RSC Advances, 2013, 3, 4872.	3.6	35
56	A new fluorescent probe for distinguishing Zn2+ and Cd2+ with high sensitivity and selectivity. Dalton Transactions, 2013, 42, 11465.	3.3	58
57	Preparation and thiols sensing of luminescent metalâ€“organic framework films functionalized with lanthanide ions. Microporous and Mesoporous Materials, 2013, 179, 198-204.	4.4	38
58	Assembly and tunable luminescence of lanthanide-organic frameworks constructed from 4-(3,5-dicarboxyphenyl)pyridine-2,6-dicarboxylate ligand. Journal of Alloys and Compounds, 2013, 551, 616-620.	5.5	23
59	Large nonlinear optical activity from hybrid inorganicâ€“organic films with fluorinated benzene as isolation group. Thin Solid Films, 2013, 544, 407-411.	1.8	11
60	Confinement of pyridinium hemicyanine dye within an anionic metal-organic framework for two-photon-pumped lasing. Nature Communications, 2013, 4, 2719.	12.8	381
61	A new fluorescent and colorimetric probe for trace hydrazine with a wide detection range in aqueous solution. Dyes and Pigments, 2013, 99, 966-971.	3.7	83
62	Solvent effect on two-photon absorption (TPA) of three novel dyes with large TPA cross-section and red emission. Dyes and Pigments, 2013, 97, 58-64.	3.7	41
63	A microporous metalâ€“organic framework of a rare sty topology for high CH4 storage at room temperature. Chemical Communications, 2013, 49, 2043.	4.1	61
64	A Doubly Interpenetrated Metalâ€“Organic Framework with Open Metal Sites and Suitable Pore Sizes for Highly Selective Separation of Small Hydrocarbons at Room Temperature. Crystal Growth and Design, 2013, 13, 2094-2097.	3.0	96
65	Synthesis of phenyltetraene chromophores-based hybrid materials for large nonlinear optical activity. Dyes and Pigments, 2013, 98, 377-383.	3.7	12
66	Facile preparation of continuous indium metal-organic framework thin films on indium tin oxide glass. Thin Solid Films, 2013, 544, 296-300.	1.8	13
67	A microporous metalâ€“organic framework with both open metal and Lewis basic pyridyl sites for high C2H2 and CH4 storage at room temperature. Chemical Communications, 2013, 49, 6719.	4.1	158
68	Three-dimensional copper (II) metalâ€“organic framework with open metal sites and anthracene nucleus for highly selective C2H2/CH4 and C2H2/CO2 gas separation at room temperature. Microporous and Mesoporous Materials, 2013, 181, 99-104.	4.4	40
69	Synthesis, Structures and Luminescent Properties of Two Coordination Polymers Based on 5â€(4â€Carboxyphenyl)â€2, 6â€PyrÂidinedicarboxylic Acid. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 430-434.	1.2	5
70	A luminescent nanoscale metalâ€“organic framework with controllable morphologies for spore detection. Chemical Communications, 2012, 48, 7377.	4.1	146
71	A Luminescent Mixed-Lanthanide Metalâ€“Organic Framework Thermometer. Journal of the American Chemical Society, 2012, 134, 3979-3982.	13.7	1,033
72	Six-branched chromophores with isolation groups: synthesis and enhanced optical nonlinearity. Journal of Materials Chemistry, 2012, 22, 9202.	6.7	25

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73	Secondâ€Order Nonlinear Optical Activity Induced by Ordered Dipolar Chromophores Confined in the Pores of an Anionic Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2012, 51, 10542-10545.	13.8	279
74	Enhancement of nonlinear optical activity in new six-branched dendritic dipolar chromophore. Journal of Materials Chemistry, 2011, 21, 3197.	6.7	38
75	A novel 2,6-dicarbonylpyridine-based fluorescent chemosensor for Co2+ with high selectivity and sensitivity. Analyst, The, 2011, 136, 5283.	3.5	30
76	Design and synthesis of bichromophores for nonlinear optical applications in polymer films. Reactive and Functional Polymers, 2011, 71, 496-501.	4.1	6
77	Inorganicâ€“organic hybrid nonlinear optical films containing thiophene-vinyl conjugated chromophore. Thin Solid Films, 2011, 519, 5056-5060.	1.8	1
78	Preparation and nonlinear optical properties of hybrid films containing dicyanomethylenepyran-based chromophores. Thin Solid Films, 2011, 519, 5061-5065.	1.8	4
79	A 3-phenoxypropane-1, 2-diol based bichromophore for enhanced nonlinear optical properties. Dyes and Pigments, 2010, 87, 204-208.	3.7	13
80	Hybrid inorganic-organic films with Benzaldehyde-based chromophore for electro-optic device. , 2010, , .		0
81	Two Chiral Nonlinear Optical Coordination Networks Based on Interwoven Two-Dimensional Square Grids of Double Helices. Crystal Growth and Design, 2010, 10, 5291-5296.	3.0	44
82	Preparation and electro-optic properties of hybrid solâ€“gel films containing imidazole chromophore. Materials Letters, 2009, 63, 2594-2596.	2.6	7
83	Synthesis and luminescence behavior of inorganicâ€“organic hybrid materials covalently bound with pyran-containing dyes. Journal of Sol-Gel Science and Technology, 2009, 52, 362-369.	2.4	16
84	Synthesis and NLO properties of hybrid inorganicâ€“organic films containing thiophene ring. Thin Solid Films, 2009, 517, 5075-5078.	1.8	10
85	An indanone-based alkoxysilane dye with second order nonlinear optical properties. Dyes and Pigments, 2009, 81, 53-57.	3.7	41
86	Enhanced Optical Nonlinearity and Improved Transparency of Inorganicâ^'Organic Hybrid Materials Containing Benzimidazole Chromophores. Journal of Physical Chemistry B, 2009, 113, 14877-14883.	2.6	23
87	Molecular Design and Synthesis of Hetero-trichromophore for Enhanced Nonlinear Optical Activity. Macromolecules, 2009, 42, 2198-2203.	4.8	25