Zihui Meng

List of Publications by Citations

82	1,105	19	30
papers	citations	h-index	g-index
90	1,372	4.7	4.44
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
82	Molecularly Imprinted Polymers with Stimuli-Responsive Affinity: Progress and Perspectives. *Polymers*, **2015**, 7, 1689-1715	4.5	91
81	A 2-D photonic crystal hydrogel for selective sensing of glucose. *Journal of Materials Chemistry A*, **2014**, 2, 9559-9565	13	60
80	A sensitive fluorescence anisotropy method for detection of lead (II) ion by a G-quadruplex-inducible DNA aptamer. *Analytica Chimica Acta*, **2014**, 812, 161-7	6.6	57
79	Dummy molecularly imprinted polymer for selective screening of trace bisphenols in river. *Analytical Methods*, **2011**, 3, 173-180	3.2	51
78	Detection of organophosphorus compounds using a molecularly imprinted photonic crystal. *Biosensors and Bioelectronics*, **2012**, 32, 273-7	11.8	47
77	Molecularly imprinted hollow spheres for the solid phase extraction of estrogens. *Talanta*, **2015**, 140, 68-72	6.2	43
76	Colorimetric sensor arrays based on pattern recognition for the detection of nitroaromatic molecules. *Journal of Hazardous Materials*, **2017**, 326, 130-137	12.8	40
75	Cellulose photonic crystal film sensor for alcohols. *Sensors and Actuators B: Chemical*, **2015**, 220, 222-226	8.5	36
74	Fast screening of antibiotics in milk using a molecularly imprinted two-dimensional photonic crystal hydrogel sensor. *Analytica Chimica Acta*, **2019**, 1070, 97-103	6.6	35
73	Protein recognition by a surface imprinted colloidal array. *Journal of Materials Chemistry A*, **2014**, 2, 7165	13	35
72	Visual detection of 2,4,6-trinitrotolune by molecularly imprinted colloidal array photonic crystal. *Journal of Hazardous Materials*, **2016**, 316, 87-93	12.8	34
71	Molecular imprinted photonic crystal for sensing of biomolecules. *Molecular Imprinting*, **2016**, 4, 1-12		30
70	A molecularly imprinted colloidal array as a colorimetric sensor for label-free detection of p-nitrophenol. *Analytical Methods*, **2014**, 6, 831-837	3.2	27
69	A non-enzymatic urine glucose sensor with 2-D photonic crystal hydrogel. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 8317-8323	4.4	27
68	Detection of nitrobenzene compounds in surface water by ion mobility spectrometry coupled with molecularly imprinted polymers. *Journal of Hazardous Materials*, **2014**, 280, 588-94	12.8	26
67	Two-dimensional inverse opal hydrogel for pH sensing. *Analyst, The*, **2014**, 139, 6192-6	5	25
66	Full-color mechanical sensor based on elastic nanocomposite hydrogels encapsulated three-dimensional colloidal arrays. *Sensors and Actuators B: Chemical*, **2016**, 234, 527-533	8.5	23

65	Two-dimensional colloidal crystal heterostructures. *RSC Advances*, **2015**, 5, 18939-18944	3.7	21
64	Development of Molecularly Imprinted 2D Photonic Crystal Hydrogel Sensor for Detection of L-Kynurenine in Human Serum. *Talanta*, **2020**, 208, 120403	6.2	21
63	Flexible construction of cellulose photonic crystal optical sensing nano-materials detecting organic solvents. *Analyst, The*, **2019**, 144, 1892-1897	5	19
62	Dyeing and Functionalization of Wearable Silk Fibroin/Cellulose Composite by Nanocolloidal Array. *ACS Applied Materials & Interfaces*, **2019**, 11, 39163-39170	9.5	18
61	Responsive photonic crystal for the sensing of environmental pollutants. *Trends in Environmental Analytical Chemistry*, **2014**, 3-4, 1-6	12	18
60	Glycated albumin based photonic crystal sensors for detection of lipopolysaccharides and discrimination of Gram-negative bacteria. *Analytica Chimica Acta*, **2020**, 1117, 1-8	6.6	15
59	Synthesis and Characterization of a Thermally and Hydrolytically Stable Energetic Material based on N-Nitrourea. *Propellants, Explosives, Pyrotechnics*, **2014**, 39, 662-669	1.7	15
58	Molecularly imprinted hollow sphere array for the sensing of proteins. *Journal of Biophotonics*, **2015**, 8, 838-45	3.1	14
57	EXTRACTION OF SHIKIMIC ACID FROM CHINESE STAR ANISE USING FLASH COLUMN CHROMATOGRAPHY ON A MOLECULARLY-IMPRINTED POLYMER COLUMN. *Journal of Liquid Chromatography and Related Technologies*, **2013**, 36, 2677-2686	1.3	14
56	Acetylcholinesterase-functionalized two-dimensional photonic crystal for the sensing of G-series nerve agents. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 2577-2585	4.4	13
55	Recent advances in self-assemblies and sensing applications of colloidal photonic crystals. *Analytica Chimica Acta*, **2020**, 1123, 91-112	6.6	13
54	Functionalized photonic crystal for the sensing of Sarin agents. *Talanta*, **2016**, 159, 412-417	6.2	13
53	Solanesol extraction from tobacco leaves by Flash chromatography based on molecularly imprinted polymers. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2016**, 1020, 1-5	3.2	13
52	Acetylcholinesterase-functionalized two-dimensional photonic crystals for the detection of organophosphates.. *RSC Advances*, **2018**, 8, 29385-29391	3.7	13
51	Thermal behavior and safety of 4,10-dinitro-2,6,8,12-tetraoxa-4,10-diazaisowutrzitane. *Journal of Thermal Analysis and Calorimetry*, **2015**, 121, 839-842	4.1	12
50	Simultaneous selective extraction of nitramine explosives using molecularly imprinted polymer hollow spheres from post blast samples. *New Journal of Chemistry*, **2017**, 41, 1129-1136	3.6	11
49	Clinical Evaluation of a Photonic Crystal Sensor for Glucose Monitoring in Urine. *ChemistrySelect*, **2019**, 4, 6547-6551	1.8	9
48	Detection of lysozyme in body fluid based on two-dimensional colloidal crystal sensor. *Microchemical Journal*, **2020**, 157, 105073	4.8	9

47	Hybrid Molecular Container Based on Glycoluril and Triptycene: Synthesis, Binding Properties, and Triggered Release. *Chemistry - A European Journal*, **2018**, 24, 14101-14110	4.8	9
46	Self-assembly of the polymer brush-grafted silica colloidal array for recognition of proteins. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 5319-5326	4.4	9
45	Triptycene Walled Glycoluril Trimer: Synthesis and Recognition Properties. *New Journal of Chemistry*, **2020**, 44, 338-345	3.6	9
44	Fabrication of an antibiotic-sensitive 2D-molecularly imprinted photonic crystal. *Analytical Methods*, **2019**, 11, 2875-2879	3.2	8
43	A glycoluril dimer-triptycene hybrid receptor: synthesis and molecular recognition properties. *Organic and Biomolecular Chemistry*, **2018**, 16, 6499-6506	3.9	8
42	Preparation of free-standing two-dimensional colloidal crystal arrays. *Colloid and Polymer Science*, **2016**, 294, 479-482	2.4	7
41	A Rapid and Sensitive Quantitative Analysis Method for TNT using Raman Spectroscopy. *Propellants, Explosives, Pyrotechnics*, **2019**, 44, 337-344	1.7	7
40	An Efficient Method of Preparation and Comprehensive Properties for Energetic Salts Based on Nitrofurazan-Functionalized Hydroxytetrazoles. *ChemistrySelect*, **2018**, 3, 11835-11841	1.8	7
39	A New Fluorescent Sensor for Fe3+ Based on Glycoluril Molecular Clip. *ChemistrySelect*, **2020**, 5, 1878-1883	1.8	6
38	PREPARATION OF SURFACE-IMPRINTED SILICA USING METAL COORDINATION FOR THE SEPARATION OF PROTEINS. *Journal of Liquid Chromatography and Related Technologies*, **2013**, 36, 2196-2207	1.3	6
37	Dopamine/Polyethylenimine-Modified Silica for Enzyme Immobilization and Strengthening of Enzymatic CO2 Conversion. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 15250-15257	8.3	6
36	Reduced graphene oxide/2D colloidal array composite membrane fabricated layer-by-layer. *Chinese Chemical Letters*, **2018**, 29, 922-926	8.1	5
35	A Covalently Imprinted Photonic Crystal for Glucose Sensing. *Journal of Nanomaterials*, **2013**, 2013, 1-6	3.2	5
34	Investigation of the Solubility of 3,4-Diaminofurazan (DAF) and 3,3?-Diamino-4,4?-azoxyfurazan (DAAF) at Temperatures Between 293.15 K and 313.15 K. *Propellants, Explosives, Pyrotechnics*, **2016**, 41, 883-887	1.7	5
33	Application of molecularly imprinted polymers for the solid-phase extraction of hexanitrohexaazaisowurtzitane (CL-20) from soil samples. *Analytical Methods*, **2016**, 8, 4413-4420	3.2	5
32	Thermal and stress tension dual-responsive photonic crystal nanocomposite hydrogels.. *RSC Advances*, **2019**, 9, 21202-21205	3.7	4
31	A fast method for preparing a large diameter, three-dimensional photonic crystal infrared stealth material. *Optik*, **2019**, 180, 894-899	2.5	4
30	A biomass based photonic crystal made of konjac tofu *Chinese Chemical Letters*, **2021**, 32, 587-590	8.1	4

29	Selective Extraction of N-Heterocyclic Precursors of 1,3,5,7-Tetranitro-1,3,5,7-tetraazacyclooctane (HMX) Using Molecularly Imprinted Polymers. *Propellants, Explosives, Pyrotechnics*, **2013**, 38, 781-785	1.7	3
28	Rapid self-assembly preparation of p-nitrophenol-molecular imprinted photonic crystal sensors. *Microchemical Journal*, **2021**, 164, 105950	4.8	3
27	Synthesis and Characterization of Diaminoguanidine and Hydroxylamine Salts of 1,1,2,2-Tetranitroaminoethane (TNAE). *ChemistrySelect*, **2019**, 4, 3582-3584	1.8	2
26	Solubility of 3,7-Dinitro-1,3,5,7-tetraazabicyclo [3.3.1] Nonane in Ethanenitrile, Methanol, 1,1-Dichloroethane, Dimethyl Sulfoxide, Acetone, and Mixed Solvents. *Journal of Chemical & Engineering Data*, **2015**, 60, 1683-1687	2.8	2
25	Dimethyl sulfoxide infiltrated photonic crystals for gas sensing. *Microchemical Journal*, **2020**, 157, 105074	4.8	2
24	Investigation on the hydrolytic mechanism of cucurbit[6]uril in alkaline solution. *Royal Society Open Science*, **2018**, 5, 180038	3.3	2
23	Interactions between acyclic CB[n]-type receptors and nitrated explosive materials. *Chemical Communications*, **2019**, 55, 10635-10638	5.8	2
22	Design and Synthesis of Hydrolytically Stable N-Nitrourea Explosives. *Propellants, Explosives, Pyrotechnics*, **2015**, 40, 908-913	1.7	2
21	Full-color natural rubber latex with a photonic nanostructure composite. *Chemical Communications*, **2020**, 56, 9604-9607	5.8	2
20	Recent Advances in Sensing Applications of Molecularly Imprinted Photonic Crystals. *Frontiers in Chemistry*, **2021**, 9, 665119	5	2
19	Synthesis and Characterization of the Guanidine Salt Based on 1,1,2,2-Tetranitraminoethane (TNAE). *Propellants, Explosives, Pyrotechnics*, **2018**, 43, 1296-1301	1.7	2
18	Separation of 1,3,5,7-tetranitro-1,3,5,7-tetraazacyclooctane and 1,3,5-trinitro-1,3,5-triazacyclohexane by molecularly imprinted solid-phase extraction. *Journal of Separation Science*, **2017**, 40, 1201-1208	3.4	1
17	A Novel Synthesis, Characterization and Performances of 1,3,5-Trinitro-2,2-bis(trifluoromethyl)-1,3,5-triazinane. *ChemistrySelect*, **2019**, 4, 6338-6341	1.8	1
16	Solubility of Azilsartan in Methanol, Ethanol, Acetonitrile, -Propanol, Isopropanol, Tetrahydrofuran, and Binary Solvent Mixtures between 293.15 and 333.15 K. *ACS Omega*, **2020**, 5, 6141-6145	3.9	1
15	An enhanced gas sensor based on SiO@mesoporous MCM-41 core-shell nanocomposites for SO visual detection. *Analyst, The*, **2020**, 145, 4352-4357	5	1
14	Separation and identification of an impurity from the istradefylline intermediate.. *RSC Advances*, **2020**, 10, 14493-14499	3.7	1
13	Mechanism Improvement and Process Optimization of the One-Pot Synthesis of 3.7-Dinitro-1,3,5,7-Tetraazabicyclo[3,3,1]nonane from Urea. *Propellants, Explosives, Pyrotechnics*, **2018**, 43, 1056-1059	1.7	1
12	Characterization of Hydrazinium 3,5-Dinitroamine-1,2,4-triazole. *Journal of Energetic Materials*, **2014**, 32, S60-S70	1.6	1

11	Colloidal Photonic Crystal Sensors **2022**, 237-275		1
10	Design, Synthesis, and Biological Activity Studies of Istradefylline Derivatives Based on Adenine as A Receptor Antagonists. *ACS Omega*, **2021**, 6, 4386-4394	3.9	1
9	Quantitative Detection of Components in Polymer-Bonded Explosives through Near-Infrared Spectroscopy with Partial Least Square Regression. *ACS Omega*, **2021**, 6, 23163-23169	3.9	1
8	Aptamer empowered hydrogels: Fabrication and bio-sensing applications. *Journal of Applied Polymer Science*,	2.9	1
7	Dual-Responsive Photonic Crystal Sensors Based on Physical Crossing-Linking SF-PNIPAM Dual-Crosslinked Hydrogel. *Gels*, **2022**, 8, 339	4.2	1
6	Synthesis, Hydrolysis, Reduction and Nitrolysis of Glycoluril-Derived Precursors: Another Attempt toward the Synthesis of Nitramine Explosives. *ChemistrySelect*, **2019**, 4, 3474-3478	1.8	0
5	Investigation of Photostability of Istradefylline Aqueous Solution. *ChemistrySelect*, **2020**, 5, 2337-2341	1.8	0
4	Recent Advances in Preparation and Applications of 3D Transition Metal Oxides Semiconductor Photonic Crystal. *Advanced Photonics Research*, **2021**, 2, 2000191	1.9	0
3	Analysis of Polar Precursors of 1,3,5,7-Tetranitro-1,3,5,7-tetrazocine (HMX) Using Hydrophilic Interaction Chromatography. *Propellants, Explosives, Pyrotechnics*, **2015**, 40, 133-137	1.7	
2	Design and Preparation of a 3D Photonic Glass with a Broad Infrared Gap. *ChemistrySelect*, **2020**, 5, 15117-15120	1.8	
1	Identification and Analysis of the Impurities for Triethylboron by GC-MS Method. *Propellants, Explosives, Pyrotechnics*, **2022**, 47,	1.7	