

Xu-Dong Yu

List of Publications by Year in descending order

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43
papers

1,409
citations

430874

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330143

37
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44
all docs

44
docs citations

44
times ranked

1485
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-molecular-mass gels responding to ultrasound and mechanical stress: towards self-healing materials. <i>Chemical Society Reviews</i> , 2014, 43, 5346.	38.1	418
2	Sonication-Triggered Instantaneous Gel-to-Gel Transformation. <i>Chemistry - A European Journal</i> , 2010, 16, 9099-9106.	3.3	120
3	Visual Recognition of Aliphatic and Aromatic Amines Using a Fluorescent Gel: Application of a Sonication-Triggered Organogel. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13569-13577.	8.0	105
4	Fluorescent and Electrochemical Supramolecular Coordination Polymer Hydrogels Formed from Ion-Tuned Self-Assembly of Small Bis-Terpyridine Monomer. <i>Inorganic Chemistry</i> , 2017, 56, 7512-7518.	4.0	75
5	Robust, Self-Healing, and Multistimuli-Responsive Supergelator for the Visual Recognition and Separation of Short-Chain Cycloalkanes and Alkanes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13666-13675.	8.0	52
6	Tunable and Switchable Control of Luminescence through Multiple Physical Stimulations in Aggregation-Based Monocomponent Systems. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24312-24321.	8.0	40
7	Interfacial nanostructures and acidochromism behaviors in self-assembled terpyridine derivatives Langmuir-Blodgett films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 564, 1-9.	4.7	38
8	Instant hydrogel formation of terpyridine-based complexes triggered by DNA <i>via</i> non-covalent interaction. <i>Nanoscale</i> , 2019, 11, 4044-4052.	5.6	36
9	Highly selective luminescent sensing of Cu ²⁺ in aqueous solution based on a Eu(III)-centered periodic mesoporous organosilicas hybrid. <i>Materials and Design</i> , 2019, 172, 107712.	7.0	34
10	Sugar based nanotube assembly for the construction of sonication triggered hydrogel: an application of the entrapment of tetracycline hydrochloride. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7366-7371.	5.8	33
11	Hydrogelation Landscape Engineering and a Novel Strategy To Design Radically Induced Healable and Stimuli-Responsive Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19605-19612.	8.0	31
12	Self-healing gels triggered by ultrasound with color-tunable emission based on ion recognition. <i>Journal of Colloid and Interface Science</i> , 2019, 540, 134-141.	9.4	30
13	Cyclodextrin-Assisted Two-Component Sonogel for Visual Humidity Sensing. <i>Langmuir</i> , 2017, 33, 1090-1096.	3.5	27
14	Photochromic property of naphthalimide derivative: Selective and visual F ⁺ recognition by NSS isomers both in solution and in a self-assembly gel. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 828-835.	7.8	25
15	Selective and visual Ca ²⁺ ion recognition in solution and in a self-assembly organogel of the terpyridine-based derivative triggered by ultrasound. <i>Soft Matter</i> , 2015, 11, 8100-8104.	2.7	24
16	Switchable Supramolecular Configurations of Al ³⁺ /LysTPY Coordination Polymers in a Hydrogel Network Controlled by Ultrasound and Heat. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40079-40087.	8.0	23
17	Effect of water on the supramolecular assembly and functionality of a naphthalimide derivative: tunable honeycomb structure with mechanochromic properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5910-5916.	5.5	22
18	Full-color emission of a Eu ³⁺ -based mesoporous hybrid material modulated by Zn ²⁺ ions: emission color changes for Zn ²⁺ sensing <i>via</i> an ion exchange approach. <i>Dalton Transactions</i> , 2019, 48, 10547-10556.	3.3	19

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19	An "off-on" fluorescent naphthalimide-based sensor for anions: its application in visual F ⁻ and AcO ⁻ discrimination in a self-assembled gel state. <i>New Journal of Chemistry</i> , 2019, 43, 10554-10559.	2.8	19
20	Tunable multicolor emissions in a monocomponent gel system by varying the solvent, temperature and fluoride anion. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 11176-11182.	2.8	18
21	Novel luminescent lanthanide(III) hybrid materials: fluorescence sensing of fluoride ions and N,N-dimethylformamide. <i>Dalton Transactions</i> , 2018, 47, 11530-11538.	3.3	17
22	A Zr-cluster based thermostable, self-healing and adaptive metallogel with chromogenic properties responds to multiple stimuli with reversible radical interaction. <i>Chemical Communications</i> , 2020, 56, 2439-2442.	4.1	17
23	Fluorogenic and chromogenic detection of biologically important fluoride anion with schiff-bases containing 4-amino-1,8-naphthalimide unit. <i>Journal of Luminescence</i> , 2015, 167, 65-70.	3.1	16
24	Healable, Phase-Selective, and White-Light-Emitting Titania Based Hybrid Lanthanide-Doped Metallogels. <i>Inorganic Chemistry</i> , 2020, 59, 3974-3982.	4.0	16
25	Ultrasound-accelerated organogel: application for visual discrimination of Hg ²⁺ from Ag ⁺ . <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 2218-2222.	2.8	15
26	Naphthalimide-based fluorescent gelator for construction of both organogels and stimuli-responsive metallogels. <i>RSC Advances</i> , 2017, 7, 25673-25677.	3.6	15
27	Carbon nanodot-induced Eu ³⁺ -based fluorescent polymeric hydrogel for excellent phase-separation absorption of VOC. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7941-7947.	10.3	14
28	Ultrasound accelerated sugar based gel for in situ construction of a Eu ³⁺ -based metallogel via energy transfer in a supramolecular scaffold. <i>RSC Advances</i> , 2015, 5, 107694-107699.	3.6	11
29	Self-Assembled Copper Metallogel Bearing Terpyridine and Its Application as a Catalyst for the Click Reaction in Water. <i>Langmuir</i> , 2022, 38, 1398-1405.	3.5	11
30	Hydrophobic surface to hold a water droplet by cholesterol-based organogel with solvent-tuned morphologies. <i>New Journal of Chemistry</i> , 2013, 37, 1201.	2.8	10
31	Isomeric effect of solvents on a sugar-based supergelator with self-healing ability. <i>Applied Surface Science</i> , 2020, 513, 145814.	6.1	10
32	Switchable sol-gel transition controlled by ultrasound and body temperature. <i>Supramolecular Chemistry</i> , 2016, 28, 335-338.	1.2	7
33	Ultrasound-induced emission color and transmittance changes of organogel based on "trans-to-cis" isomerization. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104659.	8.2	7
34	Self-assembly induced hydrogelation approach as novel means of selective and visual sensing toward picric acid. <i>Applied Surface Science</i> , 2019, 487, 473-479.	6.1	7
35	Self-healable, Eu ³⁺ -based polymeric gels containing terpyridyl groups with tunable luminescence based on ion recognition. <i>Journal of Rare Earths</i> , 2020, 38, 705-710.	4.8	7
36	Self-healing organogels and hydrogels constructed by self-assembled bis-terpyridine complex with selective metal ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 589, 124439.	4.7	7

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37	Facile construction of terpyridine-based metallo-polymers in hydrogels, crystals and solutions directed by metal ions. <i>Journal of Colloid and Interface Science</i> , 2018, 521, 190-196.	9.4	6
38	Free radical oxidation reaction for selectively solvatochromic sensors with dynamic sensing ability. <i>Chinese Chemical Letters</i> , 2020, 31, 1919-1922.	9.0	6
39	Alkali metal ion triggered conductive and stimuli-responsive metallogels. <i>Dyes and Pigments</i> , 2021, 184, 108863.	3.7	5
40	Polydiacetylene-based gels for solvent discrimination and formation of Au/Ag nanoparticles with embedded photocatalytic performance. <i>Materials and Design</i> , 2021, 205, 109744.	7.0	5
41	Ultrasound Assisted Co-aggregation of a Two-component System with Multicolor Emission and Its Response to Acid. <i>Acta Chimica Sinica</i> , 2012, 70, 2016.	1.4	5
42	Structural Tunability on Naphthalimide-Based Dendrimer Gelators via Glaser Coupling Interaction with Tailored Gelation Solvent Polarity and Stimuli-Responsive Properties. <i>Langmuir</i> , 2021, 37, 2677-2682.	3.5	4
43	Emission Enhancement of Perylene-Bisimide-Based Organogel Triggered by Ultrasound. <i>ChemistrySelect</i> , 2020, 5, 4389-4392.	1.5	2