Muthaiah Shellaiah

List of Publications by Year
in descending order

45 papers	1,830 citations	236925 25 h-index	265206 42 g-index
45 all docs	45 docs citations	45 times ranked	2260 citing authors

#	Article	IF	Citations
1	Novel pyrene- and anthracene-based Schiff base derivatives as Cu²⁺and Fe³⁺fluorescence turn-on sensors and for aggregation induced emissions. Journal of Materials Chemistry A, 2013, 1, 1310-1318.	10.3	245
2	Structural and Photophysical Properties of Methylammonium Lead Tribromide (MAPbBr3) Single Crystals. Scientific Reports, 2017, 7, 13643.	3.3	163
3	Simple pyridyl-salicylimine-based fluorescence â€œturn-onâ€•sensors for distinct detections of Zn2+, Al3+ and OHâ^' ions in mixed aqueous media. Analyst, The, 2013, 138, 2931.	3.5	118
4	Review on Sensing Applications of Perovskite Nanomaterials. Chemosensors, 2020, 8, 55.	3.6	105
5	A simple pyrene based AIEE active schiff base probe for selective naked eye and fluoresence offâ€“on detection of trivalent cations with live cell application. Sensors and Actuators B: Chemical, 2016, 231, 18-29.	7.8	89
6	A pyrene based Schiff base probe for selective fluorescence turn-on detection of Hg²⁺ ions with live cell application. New Journal of Chemistry, 2015, 39, 2523-2531.	2.8	86
7	Novel pyrene containing monomeric and dimeric supramolecular AIEE active nano-probes utilized in selective â€œoffâ€“onâ€•trivalent metal and highly acidic pH sensing with live cell applications. Journal of Materials Chemistry C, 2016, 4, 2056-2071.	5.5	71
8	A new pyrene-based aggregation induced ratiometric emission probe for selective detections of trivalent metal ions and its living cell application. Sensors and Actuators B: Chemical, 2015, 207, 338-345.	7.8	67
9	Simple bare gold nanoparticles for rapid colorimetric detection of Cr3+ ions in aqueous medium with real sample applications. Sensors and Actuators B: Chemical, 2016, 226, 44-51.	7.8	61
10	Pyrene-Based AIEE Active Nanoprobe for Zn²⁺ and Tyrosine Detection Demonstrated by DFT, Bioimaging, and Organic Thin-Film Transistor. ACS Applied Materials & Interfaces, 2021, 13, 28610-28626.	8.0	53
11	Synthesis of novel triarylamine-based dendrimers with N4,N6-dibutyl-1,3,5-triazine-4,6-diamine probe for electron/energy transfers in H-bonded donorâ€“acceptorâ€“donor triads and as efficient Cu2+ sensors. Journal of Materials Chemistry, 2012, 22, 8976.	6.7	49
12	Novel rhodamine probe for colorimetric and fluorescent detection of Fe3+ ions in aqueous media with cellular imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 242, 118757.	3.9	47
13	Methylammonium Tin Tribromide Quantum Dots for Heavy Metal Ion Detection and Cellular Imaging. ACS Applied Nano Materials, 2022, 5, 2859-2874.	5.0	45
14	Thermal and Thermoelectric Transport in Highly Resistive Single Sb2Se3 Nanowires and Nanowire Bundles. Scientific Reports, 2016, 6, 35086.	3.3	44
15	Luminescent Metal Nanoclusters for Potential Chemosensor Applications. Chemosensors, 2017, 5, 36.	3.6	41
16	Naked eye and fluorescent detections of Hg2+ ions and Cysteine via J-aggregation and deaggregation of a perylene bisimide derivative. Sensors and Actuators B: Chemical, 2014, 194, 229-237.	7.8	40
17	Facile rhodamine-based colorimetric sensors for sequential detections of Cu(<scp>ii</scp>) ions and pyrophosphate (P₂O₇^{4â^'}) anions. RSC Advances, 2016, 6, 106631-106640.	3.6	40
18	Development of extremely stable dual functionalized gold nanoparticles for effective colorimetric detection of clenbuterol and ractopamine in human urine samples. Analytica Chimica Acta, 2018, 1023, 96-104.	5.4	39

#	Article	IF	Citations
19	Review on Nanomaterial-Based Melamine Detection. Chemosensors, 2019, 7, 9.	3.6	36
20	Nanodiamonds conjugated to gold nanoparticles for colorimetric detection of clenbuterol and chromium(III) in urine. Mikrochimica Acta, 2018, 185, 74.	5.0	34
21	Progress in Metal-Organic Frameworks Facilitated Mercury Detection and Removal. Chemosensors, 2021, 9, 101.	3.6	33
22	Structural, Photophysical, and Electronic Properties of CH3NH3PbCl3 Single Crystals. Scientific Reports, 2019, 9, 13311.	3.3	32
23	Cysteamine-capped gold-copper nanoclusters for fluorometric determination and imaging of chromium(VI) and dopamine. Mikrochimica Acta, 2019, 186, 788.	5.0	32
24	Novel anthracene- and pyridine-containing Schiff base probe for selective â€œoffâ€“onâ€•fluorescent determination of Cu²⁺ ions towards live cell application. New Journal of Chemistry, 2016, 40, 6101-6108.	2.8	31
25	Cysteamine-modified diamond nanoparticles applied in cellular imaging and Hg2+ ions detection. Applied Surface Science, 2019, 465, 340-350.	6.1	26
26	A pH cooperative strategy for enhanced colorimetric sensing of Cr(III) ions using biocompatible L-glutamic acid stabilized gold nanoparticles. Microchemical Journal, 2021, 160, 105754.	4.5	23
27	Diversiform Nanostructures Constructed from Tetraphenylethene and Pyrene-Based Acid/Base Controllable Molecular Switching Amphiphilic [2]Rotaxanes with Tunable Aggregation-Induced Static Excimers. ACS Applied Materials & Interfaces, 2020, 12, 45222-45234.	8.0	19
28	An Affordable Wet Chemical Route to Grow Conducting Hybrid Graphite-Diamond Nanowires: Demonstration by A Single Nanowire Device. Scientific Reports, 2017, 7, 11243.	3.3	18
29	Synthesis of novel platinum complex core as a selective Ag⁺ sensor and its H-bonded tetrads self-assembled with triarylamine dendrimers for electron/energy transfers. Journal of Materials Chemistry A, 2014, 2, 17463-17476.	10.3	17
30	Pyrene-SH functionalized OTFT for detection of Hg2+ ions in aquatic environments. Organic Electronics, 2019, 69, 275-280.	2.6	17
31	Inorganic-Diverse Nanostructured Materials for Volatile Organic Compound Sensing. Sensors, 2021, 21, 633.	3.8	16
32	Stiff-Stilbene-Bridged Biscalix[4]arene as a Highly Light-Responsive Supramolecular Gelator. Organic Letters, 2021, 23, 2772-2776.	4.6	11
33	Star-shaped self-assembly of an organic thin film transistor sensor in the presence of Cu2+ and CNâ¯ ions. Organic Electronics, 2014, 15, 582-589.	2.6	10
34	Acidâ€“base controllable nanostructures and the fluorescence detection of H₂PO₄^{â¯} by the molecular shuttling of tetraphenylethene-based [2]rotaxanes. Journal of Materials Chemistry C, 2021, 9, 3215-3228.	5.5	10
35	Diamond-Based Electrodes for Detection of Metal Ions and Anions. Nanomaterials, 2022, 12, 64.	4.1	10
36	Synthesis of novel supramolecular triads bearing a H-bonded perylene bisimide core. Tetrahedron, 2012, 68, 7926-7931.	1.9	9

#	Article	IF	Citations
37	Fabrication of centimeter-scale MAPbBr3 light-emitting device with high color purity. Organic Electronics, 2020, 86, 105931.	2.6	8
38	Effect of Metal Ions on Hybrid Graphite-Diamond Nanowire Growth: Conductivity Measurements from a Single Nanowire Device. Nanomaterials, 2019, 9, 415.	4.1	7
39	Synthesis of metal-free organic dyes containing tris(dodecyloxy)phenyl and dithienothiophenyl units and a study of their mesomorphic and photovoltaic properties. Tetrahedron, 2013, 69, 2124-2130.	1.9	6
40	Junction model and transport mechanism in hybrid PEDOT:PSS/n-GaAs solar cells. Organic Electronics, 2017, 51, 435-441.	2.6	6
41	Improved morphological characteristics and electronic properties of MAPbI3 thin film with multiple methylamine spray treatments. Organic Electronics, 2020, 78, 105556.	2.6	6
42	Field-effect-dependent thermoelectric power in highly resistive Sb2Se3 single nanowire. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	4
43	Electrochemical Studies on Vanadyl Complex with meso-5,10,15,20-tetrakis(2,5-Dimethoxyphenyl) porphyrin using Electron Paramagnetic Resonance and Cyclic Voltammetry. Asian Journal of Chemistry, 2020, 33, 26-30.	0.3	3
44	Construction of anisotropic nanostructures by self-assembly of aggregation-induced emission driven from tris-branched [2]rotaxane based molecular zipper. Materials Today Chemistry, 2022, 24, 100997.	3.5	2
45	Diamond Nanowire Synthesis, Properties and Applications. , 2019, , .		1