

# Muthaiah Shellaiah

## List of Publications by Year in descending order

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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	Methylammonium Tin Tribromide Quantum Dots for Heavy Metal Ion Detection and Cellular Imaging. ACS Applied Nano Materials, 2022, 5, 2859-2874.	5.0	45
2	Diamond-Based Electrodes for Detection of Metal Ions and Anions. Nanomaterials, 2022, 12, 64.	4.1	10
3	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
4	Acid-base controllable nanostructures and the fluorescence detection of $H_2PO_4^-$ by the molecular shuttling of tetraphenylethene-based [2]rotaxanes. Journal of Materials Chemistry C, 2021, 9, 3215-3228.	5.5	10
5	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
6	Stiff-Stilbene-Bridged Biscalix[4]arene as a Highly Light-Responsive Supramolecular Gelator. Organic Letters, 2021, 23, 2772-2776.	4.6	11
7	Progress in Metal-Organic Frameworks Facilitated Mercury Detection and Removal. Chemosensors, 2021, 9, 101.	3.6	33
8	Pyrene-Based AIEE Active Nanoprobe for $Zn^{2+}$ and Tyrosine Detection Demonstrated by DFT, Bioimaging, and Organic Thin-Film Transistor. ACS Applied Materials & Interfaces, 2021, 13, 28610-28626.	8.0	53
9	Inorganic-Diverse Nanostructured Materials for Volatile Organic Compound Sensing. Sensors, 2021, 21, 633.	3.8	16
10	Improved morphological characteristics and electronic properties of MAPbI <sub>3</sub> thin film with multiple methylamine spray treatments. Organic Electronics, 2020, 78, 105556.	2.6	6
11	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
12	Fabrication of centimeter-scale MAPbBr <sub>3</sub> light-emitting device with high color purity. Organic Electronics, 2020, 86, 105931.	2.6	8
13	Review on Sensing Applications of Perovskite Nanomaterials. Chemosensors, 2020, 8, 55.	3.6	105
14	Novel rhodamine probe for colorimetric and fluorescent detection of Fe <sup>3+</sup> ions in aqueous media with cellular imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 242, 118757.	3.9	47
15	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
16	Diamond Nanowire Synthesis, Properties and Applications. , 2019, , .		1
17	Structural, Photophysical, and Electronic Properties of CH <sub>3</sub> NH <sub>3</sub> PbCl <sub>3</sub> Single Crystals. Scientific Reports, 2019, 9, 13311.	3.3	32
18	Effect of Metal Ions on Hybrid Graphite-Diamond Nanowire Growth: Conductivity Measurements from a Single Nanowire Device. Nanomaterials, 2019, 9, 415.	4.1	7

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19	Pyrene-SH functionalized OTFT for detection of Hg <sup>2+</sup> ions in aquatic environments. <i>Organic Electronics</i> , 2019, 69, 275-280.	2.6	17
20	Review on Nanomaterial-Based Melamine Detection. <i>Chemosensors</i> , 2019, 7, 9.	3.6	36
21	Cysteamine-capped gold-copper nanoclusters for fluorometric determination and imaging of chromium(VI) and dopamine. <i>Mikrochimica Acta</i> , 2019, 186, 788.	5.0	32
22	Cysteamine-modified diamond nanoparticles applied in cellular imaging and Hg <sup>2+</sup> ions detection. <i>Applied Surface Science</i> , 2019, 465, 340-350.	6.1	26
23	Nanodiamonds conjugated to gold nanoparticles for colorimetric detection of clenbuterol and chromium(III) in urine. <i>Mikrochimica Acta</i> , 2018, 185, 74.	5.0	34
24	Development of extremely stable dual functionalized gold nanoparticles for effective colorimetric detection of clenbuterol and ractopamine in human urine samples. <i>Analytica Chimica Acta</i> , 2018, 1023, 96-104.	5.4	39
25	Field-effect-dependent thermoelectric power in highly resistive Sb <sub>2</sub> Se <sub>3</sub> single nanowire. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	4
26	Junction model and transport mechanism in hybrid PEDOT:PSS/n-GaAs solar cells. <i>Organic Electronics</i> , 2017, 51, 435-441.	2.6	6
27	Structural and Photophysical Properties of Methylammonium Lead Tribromide (MAPbBr <sub>3</sub> ) Single Crystals. <i>Scientific Reports</i> , 2017, 7, 13643.	3.3	163
28	An Affordable Wet Chemical Route to Grow Conducting Hybrid Graphite-Diamond Nanowires: Demonstration by A Single Nanowire Device. <i>Scientific Reports</i> , 2017, 7, 11243.	3.3	18
29	Luminescent Metal Nanoclusters for Potential Chemosensor Applications. <i>Chemosensors</i> , 2017, 5, 36.	3.6	41
30	Novel anthracene- and pyridine-containing Schiff base probe for selective fluorescent determination of Cu <sup>2+</sup> ions towards live cell application. <i>New Journal of Chemistry</i> , 2016, 40, 6101-6108.	2.8	31
31	Thermal and Thermoelectric Transport in Highly Resistive Single Sb <sub>2</sub> Se <sub>3</sub> Nanowires and Nanowire Bundles. <i>Scientific Reports</i> , 2016, 6, 35086.	3.3	44
32	Facile rhodamine-based colorimetric sensors for sequential detections of Cu <sup>2+</sup> ions and pyrophosphate (P <sub>2</sub> O <sub>7</sub> <sup>4-</sup> ) anions. <i>RSC Advances</i> , 2016, 6, 106631-106640.	3.6	40
33	Novel pyrene containing monomeric and dimeric supramolecular AIEE active nano-probes utilized in selective trivalent metal and highly acidic pH sensing with live cell applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2056-2071.	5.5	71
34	A simple pyrene based AIEE active schiff base probe for selective naked eye and fluorescence detection of trivalent cations with live cell application. <i>Sensors and Actuators B: Chemical</i> , 2016, 231, 18-29.	7.8	89
35	Simple bare gold nanoparticles for rapid colorimetric detection of Cr <sup>3+</sup> ions in aqueous medium with real sample applications. <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 44-51.	7.8	61
36	A pyrene based Schiff base probe for selective fluorescence turn-on detection of Hg <sup>2+</sup> ions with live cell application. <i>New Journal of Chemistry</i> , 2015, 39, 2523-2531.	2.8	86

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37	A new pyrene-based aggregation induced ratiometric emission probe for selective detections of trivalent metal ions and its living cell application. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 338-345.	7.8	67
38	Synthesis of novel platinum complex core as a selective Ag <sup>+</sup> sensor and its H-bonded tetrads self-assembled with triarylamine dendrimers for electron/energy transfers. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17463-17476.	10.3	17
39	Naked eye and fluorescent detections of Hg <sup>2+</sup> ions and Cysteine via J-aggregation and deaggregation of a perylene bisimide derivative. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 229-237.	7.8	40
40	Star-shaped self-assembly of an organic thin film transistor sensor in the presence of Cu <sup>2+</sup> and CN <sup>-</sup> ions. <i>Organic Electronics</i> , 2014, 15, 582-589.	2.6	10
41	Synthesis of metal-free organic dyes containing tris(dodecyloxy)phenyl and dithienothiophenyl units and a study of their mesomorphic and photovoltaic properties. <i>Tetrahedron</i> , 2013, 69, 2124-2130.	1.9	6
42	Novel pyrene- and anthracene-based Schiff base derivatives as Cu <sup>2+</sup> and Fe <sup>3+</sup> fluorescence turn-on sensors and for aggregation induced emissions. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1310-1318.	10.3	245
43	Simple pyridyl-salicylimine-based fluorescence "turn-on" sensors for distinct detections of Zn <sup>2+</sup> , Al <sup>3+</sup> and OH <sup>-</sup> ions in mixed aqueous media. <i>Analyst</i> , 2013, 138, 2931.	3.5	118
44	Synthesis of novel supramolecular triads bearing a H-bonded perylene bisimide core. <i>Tetrahedron</i> , 2012, 68, 7926-7931.	1.9	9
45	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 donor-acceptor-donor triads and as efficient Cu <sup>2+</sup> sensors. <i>Journal of Materials Chemistry</i> , 2012, 22, 8976.	6.7	49