

Pounraj Thanasekaran

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74
papers

2,197
citations

29
h-index

45
g-index

83
ext. papers

2,465
ext. citations

6.2
avg, IF

4.96
L-index

#	Paper	IF	Citations
74	Metal-containing molecular rectangles: synthesis and photophysical properties. <i>Coordination Chemistry Reviews</i> , 2005 , 249, 1085-1110	23.2	178
73	Self-assembly, reorganization, and photophysical properties of silver(I)-Schiff-base molecular rectangle and polymeric array species. <i>Inorganic Chemistry</i> , 2006 , 45, 295-303	5.1	136
72	One-step orthogonal-bonding approach to the self-assembly of neutral rhenium-based metallacycles: synthesis, structures, photophysics, and sensing applications. <i>Accounts of Chemical Research</i> , 2012 , 45, 1403-18	24.3	96
71	Luminescence enhancement induced by aggregation of alkoxy-bridged rhenium(I) molecular rectangles. <i>Inorganic Chemistry</i> , 2002 , 41, 5323-5	5.1	95
70	Aggregation-induced phosphorescence enhancement (AIPE) based on transition metal complexes: An overview. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2015 , 23, 25-44	16.4	80
69	Functionalized Silica Matrices and Palladium: A Versatile Heterogeneous Catalyst for Suzuki, Heck, and Sonogashira Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6357-6376	8.3	74
68	Synthesis and photophysical properties of neutral luminescent rhenium-based molecular rectangles. <i>Inorganic Chemistry</i> , 2003 , 42, 6388-94	5.1	73
67	Recent developments on optical and electrochemical sensing of copper(II) ion based on transition metal complexes. <i>Coordination Chemistry Reviews</i> , 2017 , 343, 278-307	23.2	69
66	A journey in search of single-walled metalorganic nanotubes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13140		68
65	Research Progress on Porous Carbon Supported Metal/Metal Oxide Nanomaterials for Supercapacitor Electrode Applications. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 6347-6374	3.9	63
64	Biomass Derived Sheet-like Carbon/Palladium Nanocomposite: An Excellent Opportunity for Reduction of Toxic Hexavalent Chromium. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5302-5312	8.3	62
63	Gondola-shaped luminescent tetrarhenium metallacycles with crown-ether-like multiple recognition sites. <i>Inorganic Chemistry</i> , 2006 , 45, 10052-4	5.1	58
62	Rhenium-based molecular rectangular boxes with large inner cavity and high shape selectivity towards benzene molecule. <i>Chemical Communications</i> , 2008 , 3175-7	5.8	56
61	CH...pi interaction for rhenium-based rectangles: an interaction that is rarely designed into a host-guest pair. <i>Inorganic Chemistry</i> , 2006 , 45, 8070-7	5.1	52
60	Aggregation-induced emission enhancement in alkoxy-bridged binuclear rhenium(I) complexes: application as sensor for explosives and interaction with microheterogeneous media. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14358-66	3.4	50
59	Unusual face-to-face pi-pi stacking interactions within an indigo-pillared M3(tpt)-based triangular metalloprium. <i>Dalton Transactions</i> , 2008 , 6110-2	4.3	47
58	Self-assembly of octarhenium-based neutral luminescent rectangular prisms. <i>Inorganic Chemistry</i> , 2003 , 42, 4795-7	5.1	46

57	Development of luminescent sensors based on transition metal complexes for the detection of nitroexplosives. <i>Dalton Transactions</i> , 2017 , 46, 16738-16769	4.3	44
56	Marcus Inverted Region in the Photoinduced Electron Transfer Reactions of Ruthenium(II)Polypyridine Complexes with Phenolate Ions. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 8195-8199	2.8	42
55	Computational Studies of Versatile Heterogeneous Palladium-Catalyzed Suzuki, Heck, and Sonogashira Coupling Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8475-8490	8.3	38
54	Giant metal-organic frameworks with bulky scaffolds: from microporous to mesoporous functional materials. <i>Dalton Transactions</i> , 2012 , 41, 5437-53	4.3	38
53	Well-dispersed rhenium nanoparticles on three-dimensional carbon nanostructures: Efficient catalysts for the reduction of aromatic nitro compounds. <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 271-282	9.3	36
52	Highly emissive cyclometalated rhenium metallacycles: structure-luminescence relationship. <i>Inorganic Chemistry</i> , 2010 , 49, 6805-7	5.1	36
51	Photoswitchable alkoxy-bridged binuclear rhenium(I) complexes as a potential probe for biomolecules and optical cell imaging. <i>RSC Advances</i> , 2013 , 3, 18557	3.7	35
50	Organometallic calixarenes: syceelike tetrarhenium(I) cavitands with tunable size, color, functionality, and coin-slot complexation. <i>Chemistry - A European Journal</i> , 2011 , 17, 3343-6	4.8	34
49	Photoluminescence electron-transfer quenching of rhenium(I) rectangles with amines. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 10683-9	2.8	32
48	Alkoxy bridged binuclear rhenium (I) complexes as a potential sensor for amyloid aggregation. <i>Talanta</i> , 2014 , 130, 274-9	6.2	31
47	Unprecedented Reduction of 2,2'-Bipyrimidine in a One-Pot Synthesis of Neutral Rhenium(I)-Based Molecular Rectangles. <i>Organometallics</i> , 2008 , 27, 2141-2144	3.8	29
46	Steric effects in the photoinduced electron transfer reactions of ruthenium(II)-polypyridine complexes with 2,6-disubstituted phenolate ions. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 2063-2069	3.6	29
45	Neutral discrete metal-organic cyclic architectures: Opportunities for structural features and properties in confined spaces. <i>Coordination Chemistry Reviews</i> , 2014 , 280, 96-175	23.2	26
44	Aggregate of alkoxy-bridged Re(I)-rectangles as a probe for photoluminescence quenching. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 10953-60	2.8	26
43	Construction of a Near-Infrared-Activatable Enzyme Platform To Remotely Trigger Intracellular Signal Transduction Using an Upconversion Nanoparticle. <i>ACS Nano</i> , 2015 , 9, 7041-51	16.7	25
42	Low-cost palladium decorated on m-aminophenol-formaldehyde-derived porous carbon spheres for the enhanced catalytic reduction of organic dyes. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 354-363	6.8	24
41	Monometallic rhenium(I) complexes as sensor for anions. <i>Inorganic Chemistry Communication</i> , 2013 , 35, 186-191	3.1	21
40	Micellar catalysis on the electron transfer reactions of iron(III)-polypyridyl complexes with organic sulfides-importance of hydrophobic interactions. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 352-8	3.9	21

- 39 Electron transfer reactions of iron (III) - polypyridyl complexes with organic sulphides. *Tetrahedron*, **1995**, 51, 4801-4818 2.4 21
- 38 Aggregation-induced emission enhancement of anthracene-derived Schiff base compounds and their application as a sensor for bovine serum albumin and optical cell imaging. *Luminescence*, **2018**, 33, 780-789 2.5 19
- 37 Luminescent sensor for copper(II) ion based on imine functionalized monometallic rhenium(I) complexes. *Sensors and Actuators B: Chemical*, **2017**, 240, 1216-1225 8.5 19
- 36 Simple Preparation of Porous Carbon-Supported Ruthenium: Propitious Catalytic Activity in the Reduction of Ferrocyanate(III) and a Cationic Dye. *ACS Omega*, **2018**, 3, 12609-12621 3.9 19
- 35 Synthesis and characterization of monometallic rhenium(I) complexes and their application as selective sensors for copper(II) ions. *RSC Advances*, **2015**, 5, 38479-38488 3.7 17
- 34 Quinonoid-bridged chair-shaped dirhenium(I) metallacycles: synthesis, characterization, and spectroelectrochemical studies. *Inorganic Chemistry*, **2010**, 49, 10264-72 5.1 17
- 33 Host-guest keylock hydrogen-bonding interactions: a rare case in the design of a V-shaped polycarboxylate Ni(II)-based chiral coordination polymer. *CrystEngComm*, **2013**, 15, 9798 3.3 16
- 32 A Metal-Free Carbon-Based Catalyst: An Overview and Directions for Future Research. *Journal of Carbon Research*, **2018**, 4, 54 3.3 16
- 31 Transition metal complexes based aptamers as optical diagnostic tools for disease proteins and biomolecules. *Coordination Chemistry Reviews*, **2019**, 380, 519-549 23.2 15
- 30 A Molecular Triangle as a Precursor Toward the Assembly of a Jar-Shaped Metallasupramolecule. *Organometallics*, **2014**, 33, 40-44 3.8 14
- 29 Luminescence quenching of Re(I) molecular rectangles by quinones. *Dalton Transactions*, **2010**, 39, 2928-2935 4.5 14
- 28 Photoredox reactions of tris(2,2'-bipyrazine)-, tris(2,2'-bipyrimidine)- and tris(2,3-bis[2-pyridyl]pyrazine)ruthenium(II) cations with phenolate ions in aqueous acetonitrile. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 3339-3344 14
- 27 Multiple target detection and binding properties of naphthalene-derived Schiff-base chemosensor. *Journal of Molecular Liquids*, **2021**, 325, 115190 6 14
- 26 Lipid-Wrapped Upconversion Nanoconstruct/Photosensitizer Complex for Near-Infrared Light-Mediated Photodynamic Therapy. *ACS Applied Materials & Interfaces*, **2019**, 11, 84-95 9.5 14
- 25 Translational Medicine in Pulmonary-Renal Crosstalk: Therapeutic Targeting of p-Cresyl Sulfate Triggered Nonspecific ROS and Chemoattractants in Dyspneic Patients with Uremic Lung Injury. *Journal of Clinical Medicine*, **2018**, 7, 5.1 13
- 24 Melamine-promoted crystal growth of calcium oxalate monohydrate from calcium nitrate and oxalic acid. *Inorganic Chemistry Communication*, **2012**, 17, 84-87 3.1 11
- 23 Effect of ancillary ligands on the photophysical properties of Ru(II) complexes bearing a highly conjugated diimine ligand: A density functional theory study. *Inorganica Chimica Acta*, **2009**, 362, 5064-5072 2.7 10
- 22 Sensing of insulin fibrillation using alkoxy-bridged binuclear rhenium(I) complexes. *Inorganic Chemistry Communication*, **2016**, 73, 49-51 3.1 7

21	Selective anions mediated fluorescence "turn-on", aggregation induced emission (AIE) and lysozyme targeting properties of pyrene-naphthalene sulphonyl conjugate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 252, 119537	4.4	6
20	Carbon Dot Nanoparticles Exert Inhibitory Effects on Human Platelets and Reduce Mortality in Mice with Acute Pulmonary Thromboembolism. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
19	Phosphorescence Turn-On Sensing of Anions by Rhenium(I) Schiff-Base Complexes. <i>ChemistrySelect</i> , 2018 , 3, 2277-2285	1.8	5
18	Photosensitized redox reactions of organic sulphides with tris-(2,2'-bipyrazine)ruthenium(II) cation. <i>Radiation Physics and Chemistry</i> , 1997 , 49, 103-106	2.5	5
17	Weak interactions in conducting metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2021 , 442, 213987	23.2	5
16	Synthesis, Structure, and Dynamic Behavior of Discrete Metallacyclic Rotors. <i>Chemistry Letters</i> , 2013 , 42, 776-784	1.7	4
15	Charge transfer photochemistry of Ru(bpz) ₃ ²⁺ with carboxylic acids and carboxylate ions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1999 , 120, 181-184	4.7	4
14	Non-conventional photoactive transition metal complexes that mediated sensing and inhibition of amyloidogenic aggregates. <i>Coordination Chemistry Reviews</i> , 2021 , 428, 213612	23.2	4
13	A nonlinear optical cadmium(II)-based metal-organic framework with chiral helical chains derived from an achiral bent dicarboxylate ligand. <i>CrystEngComm</i> , 2021 , 23, 824-830	3.3	4
12	Unravelling the aggregation induced emission enhancement in Tris(4,7-diphenyl-1,10-phenanthroline)ruthenium(II) complex. <i>Inorganic Chemistry Communication</i> , 2018 , 98, 7-10	3.1	4
11	Host-guest interaction studies of polycyclic aromatic hydrocarbons (PAHs) in alkoxy bridged binuclear rhenium (I) complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 222, 117160	4.4	3
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9	An Integrated System to Remotely Trigger Intracellular Signal Transduction by Upconversion Nanoparticle-mediated Kinase Photoactivation. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	1
8	A novel colorimetric, selective fluorescent Turn-off Chemodosensor and biomolecules binding studies based on iodosalicylimine schiff-base derivative. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 425, 113674	4.7	1
7	Upconversion Nanoparticle as a Platform for Photoactivation 2016 , 391-418		1
6	Advances of Inorganic Materials in the Detection and Therapeutic Uses against Coronaviruses. <i>Current Medicinal Chemistry</i> , 2021 , 28, 5311-5327	4.3	1
5	AIE or AIE(P)E-active transition metal complexes for highly sensitive detection of nitroaromatic explosives. <i>Results in Chemistry</i> , 2022 , 4, 100337	2.1	1
4	Weak interactions in imidazole-containing zinc(II)-based metal-organic frameworks. <i>Journal of the Chinese Chemical Society</i> , 2020 , 67, 2182-2188	1.5	0

- 3 Hydrophobic Metal-Organic Frameworks and Derived Composites for Microelectronics Applications. *Chemistry - A European Journal*, **2021**, 27, 16543-16563 4.8 ○
- 2 Self-assembly: An intriguing relationship between structures of metal complexes and shapes of ancient Chinese characters. *Journal of the Chinese Chemical Society*, **2019**, 66, 1027-1030 1.5
- 1 Synthesis and Photophysical Properties of Rhenium(I)-Alkynyl Molecular Rectangles. *Oriental Journal of Chemistry*, **2016**, 32, 1859-1873 0.8