

# Sujoy Baitalik

## List of Publications by Year in descending order

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81  
papers

2,496  
citations

182225

30  
h-index

242451

47  
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82  
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82  
docs citations

82  
times ranked

2583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anion and Temperature Responsive Molecular Switches Based on Trimetallic Complexes of Ru(II) and Os(II) That Demonstrate Advanced Boolean and Fuzzy Logic Functions. <i>Inorganic Chemistry</i> , 2022, 61, 3186-3201.	1.9	11
2	Synthesis and manifold but controllable emission switching of stilbene-appended polyaromatic terpyridine derivatives via aggregation and trans $\leftrightarrow$ cis isomerization. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 430, 113966.	2.0	2
3	Fuzzy Logic, Artificial Neural Network, and Adaptive Neuro-Fuzzy Inference Methodology for Soft Computation and Modeling of Ion Sensing Data of a Terpyridyl-Imidazole Based Bifunctional Receptor. <i>Frontiers in Chemistry</i> , 2022, 10, 864363.	1.8	9
4	Neuro-Fuzzification Architecture for Modeling of Electrochemical Ion-Sensing Data of Imidazole-Dicarboxylate-Based Ru(II) $\leftrightarrow$ Bipyridine Complex. <i>Inorganic Chemistry</i> , 2022, 61, 10242-10254.	1.9	8
5	Anion and Light Responsive Molecular Switches Based on Stilbene $\leftrightarrow$ Appended Ru(II) Terpyridyl $\leftrightarrow$ Imidazole Complexes That Mimic Advanced Boolean and Fuzzy Logic Operations. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	1.0	3
6	Multifunctional Sulfonated Polytriazoles: Proton-Exchange Membrane Properties, Molecular Logic Gates, and Modeling of Stimuli-Responsive Behaviors. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5583-5595.	2.0	4
7	pH-Responsive colorimetric, emission and redox switches based on Ru(ii) $\leftrightarrow$ terpyridine complexes. <i>Dalton Transactions</i> , 2021, 50, 186-196.	1.6	9
8	Tuning of photo-redox behaviours and thermodynamic and kinetic aspects of intercomponent energy transfer in trimetallic complexes of Ru( $\langle$ scp $\rangle$ ii $\rangle$ ) and Os( $\langle$ scp $\rangle$ ii $\rangle$ ) by exploiting their second coordination sphere. <i>Dalton Transactions</i> , 2021, 50, 14872-14883.	1.6	5
9	Photo-switchable iron-terpyridine complexes functionalized with styrylbenzene unit. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 407, 113059.	2.0	5
10	Emission Switching in the Near-Infrared by Reversible Trans $\leftrightarrow$ Cis Photoisomerization of Styrylbenzene-Conjugated Osmium Terpyridine Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 4869-4882.	1.9	4
11	Exploitation of the Second Coordination Sphere to Promote Significant Increase of Room-Temperature Luminescence Lifetime and Anion Sensing in Ruthenium $\leftrightarrow$ Terpyridine Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 6836-6851.	1.9	16
12	Stimuli-Responsive Molecular Switches and Logic Devices Based on Ru(II) $\leftrightarrow$ Terpyridyl $\leftrightarrow$ Imidazole Coordination Motif. <i>Journal of Physical Chemistry B</i> , 2021, 125, 8919-8931.	1.2	11
13	Low-cost photo-switches based on stilbene-appended Zn(II) $\leftrightarrow$ terpyridine complexes. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1125-1145.	1.6	3
14	Light and Cation-Driven Optical Switch based on a Stilbene-Appended Terpyridine System for the Design of Molecular-Scale Logic Devices. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8261-8273.	1.1	11
15	Controlling the Direction of Intercomponent Energy Transfer by Appropriate Placement of Metals in Long-Lived Trinuclear Complexes of Fe(II), Ru(II), and Os(II). <i>Inorganic Chemistry</i> , 2021, 60, 412-422.	1.9	6
16	Visible-Light- and PPh <sub>3</sub> -Mediated Direct C $\leftrightarrow$ N Coupling of Nitroarenes and Boronic Acids at Ambient Temperature. <i>Organic Letters</i> , 2021, 23, 8634-8639.	2.4	19
17	Anion- and solvent induced modulation of photophysical properties of a luminescent bimetallic Ru(II) complex: Experimental and TD-DFT study. <i>Inorganica Chimica Acta</i> , 2020, 502, 119337.	1.2	4
18	Anion-sensitive photophysics of luminescent trimetallic complexes of Fe(II), Ru(II), and Os(II) with polarized NH motifs. <i>Polyhedron</i> , 2020, 190, 114772.	1.0	6

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19	Experimental and theoretical exploration of photophysics and trans-cis photoisomerization of styrylbenzene conjugated terpyridine complexes of Ru(II): Strong effect of deprotonation from second coordination sphere. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 392, 112409.	2.0	11
20	Long-Lived Trimetallic Complexes of Fe(II), Ru(II), and Os(II) Based on a Heteroditopic Bipyridine-terpyridine Bridge: Synthesis, Photophysics, and Electronic Energy Transfer. <i>Inorganic Chemistry</i> , 2019, 58, 10065-10077.	1.9	13
21	Reversible Color Switching in Dual-Emitting Mn(II)-Doped CsPbBr <sub>3</sub> Perovskite Nanorods: Dilution versus Evaporation. <i>ACS Energy Letters</i> , 2019, 4, 2353-2359.	8.8	25
22	Stimuli-Responsive Near-Infrared Emissive Os(II)-terpyridine Complexes with a Sense of Logic. <i>ACS Omega</i> , 2019, 4, 2241-2255.	1.6	2
23	Photophysics and luminescence switching properties of a series of photochromic styrylbenzene-terpyridine conjugate: Experimental and DFT/TD-DFT investigation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 378, 94-104.	2.0	10
24	Frontispiz: Near-Unity Photoluminescence Quantum Efficiency for All CsPbX <sub>3</sub> (X=Cl, Br, I) Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2019, 4, 1000-1001.	1.6	0
25	Frontispiece: Near-Unity Photoluminescence Quantum Efficiency for All CsPbX <sub>3</sub> (X=Cl, Br, I) Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2019, 4, 1000-1001.	7.2	0
26	Doping Mn(II) in All-Inorganic Ruddlesden-Popper Phase of Tetragonal Cs <sub>2</sub> PbCl <sub>2</sub> I <sub>2</sub> Perovskite Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1954-1959.	2.1	45
27	Near-Unity Photoluminescence Quantum Efficiency for All CsPbX <sub>3</sub> (X=Cl, Br, and I) Perovskite Nanocrystals: A Generic Synthesis Approach. <i>Angewandte Chemie</i> , 2019, 131, 5608-5612.	1.6	57
28	Near-Unity Photoluminescence Quantum Efficiency for All CsPbX <sub>3</sub> (X=Cl, Br, and I) Perovskite Nanocrystals: A Generic Synthesis Approach. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5552-5556.	7.2	244
29	Synthesis, Structural Characterization, and Luminescence Switching of Diarylethene-Conjugated Ru(II)-Terpyridine Complexes by trans-cis Photoisomerization: Experimental and DFT/TD-DFT Investigation. <i>Inorganic Chemistry</i> , 2018, 57, 5743-5753.	1.9	28
30	Heterobimetallic Ru-Os complexes function as multichannel sensors for selected anions by taking profit of metal-ligand interaction. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 493-505.	4.0	10
31	Synthesis, Photophysics, and Switchable Luminescence Properties of a New Class of Ruthenium(II)-terpyridine Complexes Containing Photoisomerizable Styrylbenzene Units. <i>ACS Omega</i> , 2018, 3, 14526-14537.	1.6	13
32	Stimuli-Responsive Luminescent Bis-Tridentate Ru(II) Complexes toward the Design of Functional Materials. <i>Inorganic Chemistry</i> , 2018, 57, 12010-12024.	1.9	18
33	Hedgehog ZnO/Ag heterostructure: an environment-friendly rare earth free potential material for cold-white light emission with high quantum yield. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	3
34	Chromogenic and fluorogenic detection of selected anions by bis-terpyridine Fe(II) complex through displacement approach. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	0.7	4
35	Polypyridyl-imidazole based smart Ru(II) complex mimicking advanced Boolean and Fuzzy logic functions. <i>Inorganica Chimica Acta</i> , 2017, 454, 76-88.	1.2	16
36	Asymmetric bimetallic ruthenium(II) complexes selectively sense cyanide in water through significant modulation of their ground and excited state properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 208-223.	4.0	14

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37	Bimetallic Ru( $\text{II}$ ) and Os( $\text{II}$ ) complexes based on a pyrene-bisimidazole spacer: synthesis, photophysics, electrochemistry and multisignalling DNA binding studies in the near infrared region. <i>Dalton Transactions</i> , 2017, 46, 17010-17024.	1.6	8
38	Luminescent Dinuclear Ruthenium Terpyridine Complexes with a Bis-Phenylbenzimidazole Spacer. <i>Inorganic Chemistry</i> , 2017, 56, 7624-7641.	1.9	18
39	Anthraquinone-biimidazole based ruthenium(II) complexes as selective multichannel anion sensors and multi-readout molecular logic gates and memory devices: Combined experimental and DFT/TD-DFT study. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 746-759.	4.0	20
40	Smart ruthenium and osmium complexes mimic the complicated functions of traffic signal and memory device. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 635-641.	4.0	9
41	Ru-Os dyads based on a mixed bipyridine-terpyridine bridging ligand: modulation of the rate of energy transfer and pH-induced luminescence switching in the infrared domain. <i>Dalton Transactions</i> , 2017, 46, 12950-12963.	1.6	16
42	Design of Ru(II) Complexes Based on Anthraimidazole-dione-Functionalized Terpyridine Ligand for Improvement of Room-Temperature Luminescence Characteristics and Recognition of Selective Anions: Experimental and DFT/TD-DFT Study. <i>Inorganic Chemistry</i> , 2016, 55, 9707-9724.	1.9	36
43	Design of Ruthenium Biimidazole-Anthraquinone Dyads to Demonstrate Photoinduced Electron Transfer: Combined Experimental and DFT/TD-DFT Investigations. <i>ChemistrySelect</i> , 2016, 1, 1318-1328.	0.7	6
44	Demonstration of intramolecular energy transfer in asymmetric bimetallic ruthenium(ii) complexes. <i>Dalton Transactions</i> , 2016, 45, 17241-17253.	1.6	8
45	Polypyridyl-imidazole based Os(II) complex as optical chemosensor for anions and cations and multi-readout molecular logic gates and memory device: Experimental and DFT/TDDFT study. <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 388-402.	4.0	21
46	Homo- and Heterobimetallic Ruthenium(II) and Osmium(II) Complexes Based on a Pyrene-Biimidazole Spacer as Efficient DNA-Binding Probes in the Near-Infrared Domain. <i>Inorganic Chemistry</i> , 2016, 55, 3475-3489.	1.9	36
47	Design of Multichannel Osmium-Based Metalloreceptor for Anions and Cations by Taking Profit from Metal-Ligand Interaction and Construction of Molecular Keypad Lock and Memory Device. <i>Inorganic Chemistry</i> , 2015, 54, 11813-11825.	1.9	35
48	An imidazolyl-pyrene-imidazole conjugate as a cyanide sensor and a set-reset memorized sequential logic device. <i>Dalton Transactions</i> , 2015, 44, 15994-16012.	1.6	36
49	pH-Induced processes in wire-like multichromophoric homo- and heterotrimetallic complexes of Fe( $\text{II}$ ), Ru( $\text{II}$ ), and Os( $\text{II}$ ). <i>Dalton Transactions</i> , 2015, 44, 10048-10059.	1.6	13
50	Efficient Deep-Blue Emitter and Molecular-Scale Memory Device Based on Dipyrityl-Phenylimidazole-Terpyridine Assembly. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6793-6805.	1.5	41
51	Pyrene and imidazole functionalized luminescent bimetallic Ru( $\text{II}$ ) terpyridine complexes as efficient optical chemosensors for cyanide in aqueous, organic and solid media. <i>Dalton Transactions</i> , 2015, 44, 18607-18623.	1.6	19
52	Anthraimidazole-dione-Terpyridine-Based Optical Chemosensor for Anions and Cations That Works As Molecular Half-Subtractor, Key-Pad Lock, and Memory Device. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25429-25441.	1.5	49
53	Pyrene-biimidazole based Ru( $\text{II}$ ) and Os( $\text{II}$ ) complexes as highly efficient probes for the visible and near-infrared detection of cyanide in aqueous media. <i>Dalton Transactions</i> , 2015, 44, 21053-21072.	1.6	20
54	Ruthenium(II) and Osmium(II) Mixed Chelates Based on Pyrenyl-Pyridylimidazole and 2,2'-Bipyridine Ligands as Efficient DNA Intercalators and Anion Sensors. <i>Inorganic Chemistry</i> , 2015, 54, 513-526.	1.9	43



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73	Synthesis, Structural Characterization, Photophysical, Electrochemical, and Anion-Sensing Studies of Luminescent Homo- and Heteroleptic Ruthenium(II) and Osmium(II) Complexes Based on Terpyridyl-imidazole Ligand. <i>Inorganic Chemistry</i> , 2011, 50, 12586-12600.	1.9	105
74	Structural, Spectroscopic, and Proton-Coupled Electron-Transfer Behavior of Pyrazolyl-3,5-bis(benzimidazole)-Bridged Homo- and Heterochiral Ru <sup>II</sup> , Os <sup>II</sup> , and Os <sup>II</sup> Ru <sup>II</sup> 2,2'-Bipyridine Complexes. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 570-588.	1.0	21
75	Monometallic and Bimetallic Ruthenium(II) Complexes Derived from 4,5-Bis(benzimidazol-2-yl)imidazole (H <sub>3</sub> Imbzim) and 2,2'-Bipyridine as Colorimetric Sensors for Anions: Synthesis, Characterization, and Binding Studies. <i>Inorganic Chemistry</i> , 2010, 49, 2334-2348.	1.9	93
76	Synthesis, Characterization, Photophysical, and Anion-Binding Studies of Luminescent Heteroleptic Bis-Tridentate Ruthenium(II) Complexes Based on 2,6-Bis(Benzimidazole-2-yl)Pyridine and 4-Substituted 2,2'-6,2'-Terpyridine Derivatives. <i>Inorganic Chemistry</i> , 2010, 49, 5049-5062.	1.9	116
77	Ru(II) and Os(II) mixed-chelates derived from imidazole-4,5-dicarboxylic acid and 2,2'-bipyridine as colorimetric sensors for anions: synthesis, characterization and binding studies. <i>Dalton Transactions</i> , 2010, 39, 4162.	1.6	57
78	The influence of bridging ligand electronic structure on the photophysical properties of noble metal diimine and triimine light harvesting systems. <i>Photosynthesis Research</i> , 2006, 87, 83-103.	1.6	53
79	A Trimetallic Mixed Ru(II)/Fe(II) Terpyridyl Complex with A Long-Lived Excited State in Solution at Room Temperature. <i>Journal of the American Chemical Society</i> , 2004, 126, 16304-16305.	6.6	80
80	Mononuclear and Binuclear Ruthenium(II) Complexes Containing 2,2'-Bipyridine or 1,10-Phenanthroline and Pyrazole-3,5-Bis(benzimidazole). Synthesis, Structure, Isomerism, Spectroscopy, and Proton-Coupled Redox Activity. <i>Inorganic Chemistry</i> , 1999, 38, 3296-3308.	1.9	69
81	Synthesis, structure, redox activity and spectroscopic properties of ruthenium(II) complexes with 3,5-bis(benzothiazol-2-yl)pyrazole, 3,5-bis(benzimidazol-2-yl)pyrazole and 2,2'-bipyridine as co-ligands. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 719-728.	1.1	53