

Subrata Mukhopadhyay

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1434018/publications.pdf>

Version: 2024-02-01

58
papers

1,855
citations

361413

20
h-index

265206

42
g-index

58
all docs

58
docs citations

58
times ranked

1388
citing authors

#	ARTICLE	IF	CITATIONS
1	Supramolecular Self-Assembly of M-IDA Complexes Involving Lone-Pair $\cdots\pi$ Interactions: Crystal Structures, Hirshfeld Surface Analysis, and DFT Calculations [H_{2+} IDA = iminodiacetic acid, M = Cu(II), Ni(II)]. <i>Crystal Growth and Design</i> , 2011, 11, 3250-3265.	3.0	304
2	Anion Induced Formation of Supramolecular Associations Involving Lone pair $\cdots\pi$ and Anion $\cdots\pi$ Interactions in Co(II) Malonate Complexes: Experimental Observations, Hirshfeld Surface Analyses and DFT Studies. <i>Inorganic Chemistry</i> , 2012, 51, 3557-3571.	4.0	202
3	Molecular architecture using novel types of non-covalent π -interactions involving aromatic neutrals, aromatic cations and π -anions. <i>CrystEngComm</i> , 2013, 15, 1285.	2.6	136
4	A successive layer-by-layer assembly of supramolecular frameworks driven by a novel type of face-to-face π - π interactions. <i>CrystEngComm</i> , 2013, 15, 7879.	2.6	130
5	Experimental and Computational Study of Counterintuitive ClO_{4+} $\cdots\pi$ Interactions and the Interplay between π - π and Anion $\cdots\pi$ Interactions. <i>Crystal Growth and Design</i> , 2014, 14, 5812-5821.	3.0	113
6	Supramolecular assemblies involving anion $\cdots\pi$ and lone pair $\cdots\pi$ interactions: experimental observation and theoretical analysis. <i>CrystEngComm</i> , 2011, 13, 4519.	2.6	86
7	3-Picoline Mediated Self-Assembly of M(II) \cdots Malonate Complexes (M = Ni/Co/Mn/Mg/Zn/Cu) Assisted by Various Weak Forces Involving Lone Pair $\cdots\pi$, π - π , and Anion $\cdots\pi$ Hole Interactions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14713-14726.	2.6	81
8	pH Dependent Formation of Unprecedented Water \cdots Bromide Cluster in the Bromide Salts of PTP Assisted by Anion $\cdots\pi$ Interactions: Synthesis, Structure, and DFT Study. <i>Crystal Growth and Design</i> , 2014, 14, 747-755.	3.0	62
9	Salt-bridge $\cdots\pi$ (sb $\cdots\pi$) interactions at work: associative interactions of sb $\cdots\pi$, π - π and anion $\cdots\pi$ in Cu(malonate) \cdots 2-aminopyridine \cdots hexafluoridophosphate ternary system. <i>CrystEngComm</i> , 2013, 15, 686-696.	2.6	55
10	M \cdots Malonate Complexes (M = Mg, Cu, Ni and Co) Characterized by Layered Structures: Experimental Observation, Hirshfeld Surface Analysis and Theoretical Study. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4679-4685.	2.0	54
11	On the Importance of Unprecedented Lone Pair \cdots Salt Bridge Interactions in Cu(II) \cdots Malonate \cdots 2-Amino-5-Chloropyridine \cdots Perchlorate Ternary System. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5802-5811.	2.5	34
12	Kinetic and mechanistic studies on the oxidation of hydroxylamine by a tri-bridged manganese(IV) dimer in weakly acidic media. <i>Dalton Transactions RSC</i> , 2002, , 2047-2052.	2.3	32
13	Two Zinc(II)-Based Metal Complexes of New Pyrimidine Derived Ligand: Anion-Dependent Structural Variations and Charge Transport Property Analysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8724-8734.	3.1	30
14	pH-triggered changes in the supramolecular self-assembly of Cu(II) malonate complexes. <i>CrystEngComm</i> , 2008, 10, 1358.	2.6	29
15	Enhanced Photosensitive Schottky Diode Behavior of Pyrazine over 2-Aminopyrimidine Ligand in Copper(II)-Phthalate MOFs: Experimental and Theoretical Rationalization. <i>ACS Omega</i> , 2018, 3, 9160-9171.	3.5	26
16	Chromogenic and fluorogenic on-off chemosensor for selective and sensitive detection of aluminum (Al_{3+}) and bifluoride (HF_{2+}) ions in solution and in living Hep G2 cells: synthesis, experimental and theoretical studies. <i>New Journal of Chemistry</i> , 2020, 44, 13259-13265.	2.8	26
17	A turn-on fluorescent and colorimetric chemodosimeter for selective detection of Au_{3+} ions in solution and in live cells via Au_{3+} -induced hydrolysis of a rhodamine-derived Schiff base. <i>New Journal of Chemistry</i> , 2020, 44, 7954-7961.	2.8	25
18	A SELECTIVE KINETIC METHOD FOR THE ESTIMATION OF BENZYL ALCOHOL IN CLOSELY RELATED MIXTURES. <i>Analytical Letters</i> , 2001, 34, 2797-2815.	1.8	24

#	ARTICLE	IF	CITATIONS
19	Structures, photoresponse properties and DNA binding abilities of 4-(4-pyridinyl)-2-pyridone salts. RSC Advances, 2019, 9, 9663-9677.	3.6	24
20	Supramolecular and theoretical perspectives of 2,2'-bipyridine based Ni(II) and Cu(II) complexes: on the importance of C-H...Cl and H...N interactions. New Journal of Chemistry, 2020, 44, 7310-7318.	2.8	22
21	Kinetics of Oxidation of Azide by [Ethylenebis(biguanide)]silver(III) in Aqueous Acidic Media. European Journal of Inorganic Chemistry, 2003, 2003, 4308-4312.	2.0	21
22	Supramolecular assemblies involving salt bridges: DFT and X-ray evidence of bipolarity. CrystEngComm, 2020, 22, 8171-8181.	2.6	21
23	Anion-π interaction stitching 2-D layers formed by self-assembly of cations of a mononuclear copper(II) complex: synthesis, crystal structure and magnetism of [Cu(OAc)(2,2'-dypam) ₂](ClO ₄) ₄ [HOAc = acetic acid, 2,2'-dypam = 2,2'-dipyridylamine]. Journal of Coordination Chemistry, 2009, 62, 540-551.	2.2	20
24	On the Importance of Noncovalent Carbon-Bonding Interactions in the Stabilization of a 1D Co(II) Polymeric Chain as a Precursor of a Novel 2D Coordination Polymer. Journal of Physical Chemistry B, 2016, 120, 6803-6811.	2.6	19
25	Mechanistic Studies on the Oxidation of Glyoxylic and Pyruvic Acid by a [Mn ₄ O ₆] ⁴⁺ Core in Aqueous Media: Kinetics of Oxo-Bridge Protonation. Helvetica Chimica Acta, 2006, 89, 1947-1958.	1.6	17
26	Biochemical activity of a fluorescent dye rhodamine 6G: Molecular modeling, electrochemical, spectroscopic and thermodynamic studies. Journal of Photochemistry and Photobiology B: Biology, 2016, 164, 369-379.	3.8	17
27	Coordination Polymers Based on Phthalic Acid and Aminopyrazine Ligands: On the Importance of N-H...N Interactions. Polymers, 2018, 10, 182.	4.5	17
28	Syntheses, crystal structures and supramolecular assemblies of two Cu(II) complexes based on a new heterocyclic ligand: insights into C-H...Cl and H...N interactions. CrystEngComm, 2022, 24, 1598-1611.	2.6	17
29	A colorimetric and fluorescent Pd ²⁺ chemosensor based on a rhodamine-ampyrone conjugate: synthesis, experimental and theoretical studies along with <i>in vitro</i> applications. New Journal of Chemistry, 2019, 43, 3513-3519.	2.8	16
30	Structures, Photoresponse Properties, and Biological Activity of Dicyano-Substituted 4-Aryl-2-pyridone Derivatives. ACS Omega, 2019, 4, 7200-7212.	3.5	16
31	Mechanistic Studies on the Oxidation of Nitrite by a 1/4-Oxodiiron(III,III) Complex in Aqueous Acidic Media. Helvetica Chimica Acta, 2005, 88, 2661-2674.	1.6	14
32	Mechanistic Studies on the Oxidation of Hydroquinone by an Oxo-bridged Diiron(III,III) Complex in Weakly Acidic Aqueous Media. Transition Metal Chemistry, 2006, 31, 256-261.	1.4	13
33	Synthesis and crystal structure of the simultaneous binding of Ni(II) cation and chloride by the protonated 2,4,6 tris-(2-pyridyl)-1,3,5 triazine ligand: theoretical investigations of anion-π, H...N and hydrogen bonding interactions. New Journal of Chemistry, 2021, 45, 11689-11696.	2.8	13
34	Mechanistic Investigation of the Oxidation of Glyoxylic and Pyruvic Acids by Tris(biguanide)manganese(IV) in Weakly Acidic Aqueous Media. European Journal of Inorganic Chemistry, 2004, 2004, 4854-4858.	2.0	12
35	Mechanistic studies on the oxidation of glyoxylic and pyruvic acids by a {Mn ₃ O ₄ } ⁴⁺ core in aqueous media. International Journal of Chemical Kinetics, 2010, 42, 323-335.	1.6	10
36	Melamine-mediated self-assembly of a Cu(II)-methylmalonate complex assisted by π-π and anti-electrostatic H-bonding interactions. Journal of Coordination Chemistry, 2017, 70, 463-474.	2.2	10

#	ARTICLE	IF	CITATIONS
37	Kinetics of oxidation of pyruvic acid by [ethylenebis(biguanide)]silver(III) in aqueous acidic media. <i>Transition Metal Chemistry</i> , 2004, 29, 797-803.	1.4	9
38	Kinetic and Mechanistic Studies on the Oxidation of Nitrogen(III) (HNO ₂ /) by the Tris(biguanide)manganese(IV) Ion in Aqueous Acidic Media. <i>Helvetica Chimica Acta</i> , 2005, 88, 2561-2572.	1.6	9
39	Kinetics and Mechanism of Oxidation of Fe ²⁺ by the Tris(biguanide)manganese(IV) Ion in Aqueous Acid Media. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 2950-2955.	2.0	8
40	Kinetics of oxidation of phenylhydrazine by a 1/4-oxo diiron(III,III) complex in acidic aqueous media. <i>Journal of Coordination Chemistry</i> , 2006, 59, 1157-1165.	2.2	8
41	Synthesis, crystal structures, magnetic properties and DFT calculations of nitrate and oxalate complexes with 3,5 dimethyl-1-(2-pyridyl)-pyrazole-Cu(II). <i>RSC Advances</i> , 2015, 5, 45082-45091.	3.6	8
42	An experimental and theoretical exploration of supramolecular interactions and photoresponse properties of two Ni(II) complexes. <i>New Journal of Chemistry</i> , 2021, 45, 12108-12119.	2.8	8
43	Oxidation of N ^{III} and N ^{IV} by an {Mn ₄ O ₆ } ⁴⁺ Core in Aqueous Media: Proton-Coupled Electron Transfer. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 4500-4507.	2.0	7
44	Influence of 2-Amino-4-methylpyridine and 2-Aminopyrimidine Ligands on the Malonic Acid-Cu(II) System: Insights through Supramolecular Interactions and Photoresponse Properties. <i>ACS Omega</i> , 2020, 5, 460-470.	3.5	7
45	Elucidating the chemical and biochemical applications of <i>Citrus sinensis</i> -mediated silver nanocrystal. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 4863-4874.	3.5	6
46	Potential amelioration of nicotine-induced toxicity by nanocurcumin. <i>Drug Development Research</i> , 2018, 79, 119-128.	2.9	5
47	Design and synthesis of a sulphur containing Schiff base drug: DNA binding studies and theoretical calculations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 263-271.	3.5	5
48	Anion-dependent structural variations and charge transport property analysis of 4-(3-pyridyl)-4,2,6-terpyridinium salts. <i>CrystEngComm</i> , 2021, 23, 3569-3581.	2.6	5
49	Kinetics and mechanism of the oxidation of oxalic acid and bioxalate ion by [ethylenebis(biguanide)] silver (III) cation in aqueous perchlorate media. <i>Journal of Chemical Sciences</i> , 1995, 107, 403-410.	1.5	5
50	Cu(II)-catalyzed oxidation of thiols by superoxide ligated to Co ^{III} ₂ . <i>Journal of Physical Organic Chemistry</i> , 2012, 25, 1193-1197.	1.9	4
51	Kinetics and mechanism of oxidation of thiourea by a bridging superoxide in the presence of Ellman's reagent. <i>Journal of Coordination Chemistry</i> , 2016, 69, 2136-2147.	2.2	4
52	Mechanistic Studies on the Oxidation of Hydrazine by Tris(biguanide)manganese(IV) in Aqueous Acidic Media. <i>Helvetica Chimica Acta</i> , 2005, 88, 2294-2301.	1.6	3
53	Synthesis and structure of the first water-soluble chiral monomeric MnIV complex: [L ²⁺ -MnIV(biguanide) ₃] (ClO ₄) ₄ ·H ₂ O. <i>Journal of Chemical Crystallography</i> , 2006, 36, 297-301.	1.1	2
54	Homogeneous Palladium Nanoparticles Surface Hosts Catalyzed Reduction of the Chromophoric Azo (-N=N-) Group of Dye, Acid Orange 7 by Borohydride in Alkaline Media. <i>International Journal of Chemical Kinetics</i> , 2014, 46, 746-758.	1.6	2

#	ARTICLE	IF	CITATIONS
55	A Simple Demonstration of Atomic and Molecular Orbitals Using Circular Magnets. Journal of Chemical Education, 2014, 91, 1505-1507.	2.3	1
56	Penicillamine and captopril: mechanistic exploration of defensive actions of thiol drugs against a metal bound-superoxo complex. Journal of Coordination Chemistry, 2017, 70, 1723-1738.	2.2	1
57	Kinetics and Mechanism of Oxidation of $S_2O_3^{2-}$ by a Co-Bound μ_4 -Amido- μ_4 -Superoxo Complex. International Journal of Chemical Kinetics, 2016, 48, 88-97.	1.6	0
58	Exploring 3D non-interpenetrated metal-organic framework with malonate-bridged Co(II) coordination polymer: structural elucidation and theoretical study. Phase Transitions, 0, , 1-12.	1.3	0