

Krishna Kumar Damodaran

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

2,883
citations

30
h-index

53
g-index

74
ext. papers

3,039
ext. citations

5.2
avg, IF

5.16
L-index

#	Paper	IF	Citations
70	Highly Efficient Polarizing Agents for MAS-DNP of Proton-dense Molecular Solids.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	4
69	Evaluating the role of a urea-like motif in enhancing the thermal and mechanical strength of supramolecular gels. <i>CrystEngComm</i> , 2021 , 23, 617-628	3.3	1
68	Towards a selective synthetic route for cobalt amino acid complexes and their application in ring opening polymerization of γ -lactide.. <i>RSC Advances</i> , 2021 , 11, 16326-16338	3.7	3
67	Crystal Habit Modification of Metronidazole by Supramolecular Gels with Complementary Functionality. <i>Crystal Growth and Design</i> , 2021 , 21, 5383-5393	3.5	3
66	Enantioselective Gel Phase Synthesis of Metal-Organic Materials. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24406-24410	16.4	
65	Enantioselective Gel Phase Synthesis of Metal-Organic Materials. <i>Angewandte Chemie</i> , 2021 , 133, 24611	3.6	
64	Solid-State Structural Transformation and Photoluminescence Properties of Supramolecular Coordination Compounds. <i>Symmetry</i> , 2021 , 13, 112	2.7	
63	Reaction Chemistry of the $[\text{MoO}(\text{E})(\text{S})(\text{DMF})]$ Complex with Cyanide and Catalytic Thiocyanate Formation. <i>Inorganic Chemistry</i> , 2020 , 59, 7644-7656	5.1	4
62	Metal complexation induced supramolecular gels for the detection of cyanide in water. <i>Supramolecular Chemistry</i> , 2020 , 32, 276-286	1.8	7
61	Unraveling the Self-Assembly Modes in Multicomponent Supramolecular Gels Using Single-Crystal X-ray Diffraction. <i>Chemistry of Materials</i> , 2020 , 32, 3517-3527	9.6	11
60	Synthesis and characterization of asymmetric $[\text{Mo}_2\text{O}_2(\text{E})_2(\text{S})_2(\text{L})]$ complexes (L = bipy, en, dien) and their heterogeneous reaction with propylene sulfide. <i>Inorganica Chimica Acta</i> , 2020 , 501, 119272	2.7	6
59	Syntheses, spectral aspects and biological studies of bromide and azide bridged box dimer copper(II) complexes of an NNO donor arylhydrazone. <i>Inorganica Chimica Acta</i> , 2020 , 501, 119301	2.7	6
58	Role of γ -Oxide Moieties in Tuning Supramolecular Gel-State Properties. <i>Gels</i> , 2020 , 6,	4.2	3
57	Tuning Gel State Properties of Supramolecular Gels by Functional Group Modification. <i>Molecules</i> , 2019 , 24,	4.8	6
56	Crystal habit modification of Cu(II) isonicotinate γ -oxide complexes using gel phase crystallisation. <i>New Journal of Chemistry</i> , 2018 , 42, 19963-19970	3.6	11
55	Enhanced Mechanical and Thermal Strength in Mixed-Enantiomers-Based Supramolecular Gel. <i>Langmuir</i> , 2018 , 34, 12957-12967	4	15
54	Electron beam induced deposition of silacyclohexane and dichlorosilacyclohexane: the role of dissociative ionization and dissociative electron attachment in the deposition process. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2376-2388	3	1

53	Pharmaceutical polymorph control in a drug-mimetic supramolecular gel. <i>Chemical Science</i> , 2017 , 8, 78-84	4	72
52	Anion responsive and morphology tunable tripodal gelators. <i>RSC Advances</i> , 2016 , 6, 83303-83311	3.7	16
51	Selective gelation of N-(4-pyridyl)nicotinamide by copper(II) salts. <i>CrystEngComm</i> , 2015 , 17, 8130-8138	3.3	27
50	Fluorous ponytails lead to strong gelators showing thermally induced structure evolution. <i>Soft Matter</i> , 2015 , 11, 8471-8	3.6	30
49	Supramolecular gel phase crystallization: orthogonal self-assembly under non-equilibrium conditions. <i>Chemical Society Reviews</i> , 2014 , 43, 2080-8	58.5	216
48	Dirhodium paddlewheel with functionalized carboxylate bridges: new building block for self-assembly and immobilization on solid support. <i>Inorganic Chemistry</i> , 2012 , 51, 4855-61	5.1	27
47	Fluorescent acridine-based receptors for H ₂ PO ₄ (-). <i>Journal of Organic Chemistry</i> , 2012 , 77, 490-500	4.2	53
46	Targeting of anionic membrane species by lanthanide(III) complexes: towards improved MRI contrast agents for apoptosis. <i>Chemical Communications</i> , 2011 , 47, 10245-7	5.8	13
45	Supramolecular synthons in designing low molecular mass gelling agents: L-amino acid methyl ester cinnamate salts and their anti-solvent-induced instant gelation. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 1038-47	4.5	45
44	Zinc(II) coordination polymers with pseudopeptidic ligands. <i>CrystEngComm</i> , 2011 , 13, 6997	3.3	10
43	3,3'-(Ethane-1,2-diylbis[carbonylbis(azanediyl)])dipyridinium tetra-chloridoplatinate(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, m270		2
42	Recyclable Dirhodium Catalysts Embedded in Nanoporous Surface-Functionalized Organosilica Hosts for Carbenoid-Mediated Cyclopropanation Reactions. <i>ChemCatChem</i> , 2010 , 2, 1461-1466	5.2	19
41	Coordination polymers derived from a bis-pyridyl-bis-amide ligand: Supramolecular structural diversities and anion binding properties. <i>Inorganica Chimica Acta</i> , 2010 , 363, 1367-1376	2.7	22
40	Substitution of trans ligands in Exo-bis(Acetato)diruthenium(III) complexes: Synthesis and kinetic studies. <i>Inorganica Chimica Acta</i> , 2009 , 362, 1101-1108	2.7	8
39	Exploring the effect of chain length of bridging ligands in coordination complexes and polymers derived from mixed ligand systems of pyridylnicotinamides and dicarboxylates. <i>Inorganica Chimica Acta</i> , 2009 , 362, 1767-1771	2.7	11
38	Microporous Nanotubular Self-Assembly of a Molecular Chair. <i>Crystal Growth and Design</i> , 2009 , 9, 2979-2983	3.3	23
37	Metal-organic frameworks derived from bis-pyridyl-bis-amide ligands: Effect of positional isomerism of the ligands, hydrogen bonding backbone, counter anions on the supramolecular structures and selective crystallization of the sulfate anion. <i>CrystEngComm</i> , 2009 , 11, 796	3.3	67
36	DNA binding and cleavage properties of a newly synthesised Ru(II)-polypyridyl complex. <i>Dalton Transactions</i> , 2009 , 9312-21	4.3	40

35	Hexa-chlorido-hexa-chlorido(η -hexa-methyl-benzene)trialuminium(III)lanthanum(III) benzene solvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009 , 65, m286-7		3
34	Zn(II) metal-organic frameworks (MOFs) derived from a bis-pyridyl-bis-urea ligand: effects of crystallization solvents on the structures and anion binding properties. <i>CrystEngComm</i> , 2008 , 10, 1565	3-3	58
33	X-Ray Crystallographic Investigations of an Azacryptand and its Bis-Protonated Salt: Interactions of Acyclic Water Trimer and C-H \cdots Interactions in T-shaped Benzene Dimer. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2008 , 38, 2-11		2
32	Ligating topology and counter anion controlled formation of discrete metallo-macrocycle and 2D corrugated sheet in coordination compounds derived from a bis-pyridyl-bis-amide ligand and Cd (II)salts. <i>Inorganic Chemistry Communication</i> , 2008 , 11, 636-642	3.1	29
31	An easy access to an organometallic low molecular weight gelator: a crystal engineering approach. <i>Tetrahedron Letters</i> , 2008 , 49, 3052-3055	2	38
30	Conformation dependent network structures in the coordination polymers derived from pyridylisonicotinamides, carboxylates and Co(II): Entrapment of (H ₂ O) ₁₄ water cluster of an unprecedented topology. <i>CrystEngComm</i> , 2007 , 9, 895	3-3	29
29	Metalloporphyrin-based inclusion materials: exploiting ligating topologies and hydrogen-bonding backbones in generating new supramolecular architectures. <i>Inorganic Chemistry</i> , 2007 , 46, 7351-61	5.1	31
28	Remarkably Stable Porous Assembly of Nanorods Derived from a Simple Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2007 , 7, 205-207	3.5	57
27	Isomerism in Coordination Complexes and Polymers Derived from Bispyridylurea Ligands: Effect of Solvents, Conformational Flexibility, and Positional Isomerism of the Ligands. <i>Crystal Growth and Design</i> , 2007 , 7, 2096-2105	3.5	62
26	Composites of N,N'-bis-(pyridyl) urea-dicarboxylic acid as new hydrogelators- crystal engineering approach. <i>Tetrahedron</i> , 2007 , 63, 7386-7396	2.4	50
25	Role of positional isomers on receptor-anion binding and evidence for resonance energy transfer. <i>Tetrahedron</i> , 2007 , 63, 12007-12014	2.4	51
24	Preferential binding of the magnesium ion by anthraquinone based chromogenic receptors. <i>Polyhedron</i> , 2007 , 26, 1317-1322	2.7	24
23	Generation of Ir \cdots N and Rh \cdots N bonds from the oxidative addition of tin(IV) halides to [Ir(ECl)(1,5-COD)] ₂ and [Rh(ECl)(1,5-COD)] ₂ . <i>Journal of Organometallic Chemistry</i> , 2007 , 692, 5614-5620	2.3	9
22	Photochromism of arylchromenes: remarkable modification of absorption properties and lifetimes of o-quinonoid intermediates. <i>Organic Letters</i> , 2007 , 9, 919-22	6.2	39
21	Rugby-ball-shaped sulfate-water-sulfate adduct encapsulated in a neutral molecular receptor capsule. <i>Inorganic Chemistry</i> , 2007 , 46, 5817-9	5.1	118
20	Supramolecular structural diversities in the metal-organic frameworks derived from pyridylamide ligands: studying the effects of ligating topologies, hydrogen bonding backbone of the ligands and counter anions. <i>CrystEngComm</i> , 2007 , 9, 548-555	3-3	28
19	Interfacial electron transfer between the photoexcited porphyrin molecule and TiO ₂ nanoparticles: effect of catechol binding. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9012-21	3-4	75
18	Solid state structural evidence of chloroform-benzene-chloroform adduct trapped in hexaanthryl octaaminocryptand channels. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9600-1	16.4	28

17	Exploring conformationally flexible hydrogen-bond-functionalized ligand and counter anions in metal-organic frameworks of Cu(II). <i>New Journal of Chemistry</i> , 2006 , 30, 1267-1275	3.6	44
16	Hydrogen-bonded microporous network, helix and 1-D zigzag chains in MOFs of Zn(II): studying the effects of ligating topologies, hydrogen bonding backbone and counter-anions. <i>CrystEngComm</i> , 2006 , 8, 805	3.3	57
15	One-Dimensional Chains, Two-Dimensional Corrugated Sheets Having a Cross-Linked Helix in Metal-Organic Frameworks: Exploring Hydrogen-Bond Capable Backbones and Ligating Topologies in Mixed Ligand Systems. <i>Crystal Growth and Design</i> , 2006 , 6, 1903-1909	3.5	99
14	Ultrafast dynamics and excited state deactivation of [Ru(bpy) ₂ Sq] ⁺ and its derivatives. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 10197-203	3.4	12
13	NH ₄ Cl ₂ M Synthon as a Structure-Directing Tool: Crystal Structures of Some Perchlorometallates. <i>Crystal Growth and Design</i> , 2006 , 6, 216-223	3.5	40
12	Exploring hydrogen-bond capable backbone and ligating topologies: Co(II) coordination polymers derived from mixed ligand systems. <i>Journal of Molecular Structure</i> , 2006 , 796, 139-145	3.4	33
11	How Robust Is the NH ₄ Cl ₂ Cu Synthon? Crystal Structures of Some Perchlorocuprates. <i>Crystal Growth and Design</i> , 2005 , 5, 651-660	3.5	53
10	Synthesis, characterization, physicochemical, and photophysical studies of redox switchable NIR dye derived from a ruthenium-dioxolene-porphyrin system. <i>Inorganic Chemistry</i> , 2005 , 44, 2414-25	5.1	22
9	Counteranion-controlled water cluster recognition in a protonated octaamino cryptand. <i>Inorganic Chemistry</i> , 2005 , 44, 7540-6	5.1	68
8	From diamondoid network to (4,4) net: effect of ligand topology on the supramolecular structural diversity. <i>Inorganic Chemistry</i> , 2005 , 44, 6933-5	5.1	76
7	Strongly coupled ruthenium-polypyridyl complexes for efficient electron injection in dye-sensitized semiconductor nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15445-53	3.4	105
6	First snapshot of a nonpolymeric hydrogelator interacting with its gelling solvents. <i>Chemical Communications</i> , 2005 , 4059-61	5.8	109
5	Urea and thiourea based efficient colorimetric sensors for oxyanions. <i>Tetrahedron Letters</i> , 2005 , 46, 5343-5346	5.6	87
4	Mixed-ligand complexes of ruthenium(II) containing new photoactive or electroactive ligands: synthesis, spectral characterization and DNA interactions. <i>Journal of Biological Inorganic Chemistry</i> , 2005 , 10, 496-508	3.7	22
3	Efficient and simple colorimetric fluoride ion sensor based on receptors having urea and thiourea binding sites. <i>Organic Letters</i> , 2004 , 6, 3445-8	6.2	412
2	Nonpolymeric Hydrogelators Derived from Trimesic Amides. <i>Chemistry of Materials</i> , 2004 , 16, 2332-2335	5.6	57
1	Nonpolymeric hydrogelator derived from N-(4-pyridyl)isonicotinamide. <i>Langmuir</i> , 2004 , 20, 10413-8	4	73