

# Krishna Kumar Damodaran

## List of Publications by Citations

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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	Efficient and simple colorimetric fluoride ion sensor based on receptors having urea and thiourea binding sites. <i>Organic Letters</i> , <b>2004</b> , 6, 3445-8	6.2	412
69	Supramolecular gel phase crystallization: orthogonal self-assembly under non-equilibrium conditions. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 2080-8	58.5	216
68	Rugby-ball-shaped sulfate-water-sulfate adduct encapsulated in a neutral molecular receptor capsule. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 5817-9	5.1	118
67	First snapshot of a nonpolymeric hydrogelator interacting with its gelling solvents. <i>Chemical Communications</i> , <b>2005</b> , 4059-61	5.8	109
66	Strongly coupled ruthenium-polypyridyl complexes for efficient electron injection in dye-sensitized semiconductor nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 15445-53	3.4	105
65	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> , <b>2006</b> , 6, 1903-1909	3.5	99
64	Urea and thiourea based efficient colorimetric sensors for oxyanions. <i>Tetrahedron Letters</i> , <b>2005</b> , 46, 5343-5346	3.7	87
63	From diamondoid network to (4,4) net: effect of ligand topology on the supramolecular structural diversity. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 6933-5	5.1	76
62	Interfacial electron transfer between the photoexcited porphyrin molecule and TiO <sub>2</sub> nanoparticles: effect of catecholate binding. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 9012-21	3.4	75
61	Nonpolymeric hydrogelator derived from N-(4-pyridyl)isonicotinamide. <i>Langmuir</i> , <b>2004</b> , 20, 10413-8	4	73
60	Pharmaceutical polymorph control in a drug-mimetic supramolecular gel. <i>Chemical Science</i> , <b>2017</b> , 8, 78-84	4.4	72
59	Counteranion-controlled water cluster recognition in a protonated octaamino cryptand. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 7540-6	5.1	68
58	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> , <b>2009</b> , 11, 796	3.3	67
57	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> , <b>2007</b> , 7, 2096-2105	3.5	62
56	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> , <b>2008</b> , 10, 1565	3.3	58
55	Remarkably Stable Porous Assembly of Nanorods Derived from a Simple Metal-Organic Framework. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 205-207	3.5	57
54	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> , <b>2006</b> , 8, 805	3.3	57

53	Nonpolymeric Hydrogelators Derived from Trimesic Amides. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 2332-2335	9.6	57
52	Fluorescent acridine-based receptors for H <sub>2</sub> PO <sub>4</sub> (-). <i>Journal of Organic Chemistry</i> , <b>2012</b> , 77, 490-500	4.2	53
51	How Robust Is the N <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> Cu Synthon? Crystal Structures of Some Perchlorocuprates. <i>Crystal Growth and Design</i> , <b>2005</b> , 5, 651-660	3.5	53
50	Role of positional isomers on receptor-anion binding and evidence for resonance energy transfer. <i>Tetrahedron</i> , <b>2007</b> , 63, 12007-12014	2.4	51
49	Composites of N,N'-bis-(pyridyl) urea-dicarboxylic acid as new hydrogelators—a crystal engineering approach. <i>Tetrahedron</i> , <b>2007</b> , 63, 7386-7396	2.4	50
48	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> , <b>2011</b> , 6, 1038-47	4.5	45
47	Exploring conformationally flexible hydrogen-bond-functionalized ligand and counter anions in metal-organic frameworks of Cu(II). <i>New Journal of Chemistry</i> , <b>2006</b> , 30, 1267-1275	3.6	44
46	DNA binding and cleavage properties of a newly synthesised Ru(II)-polypyridyl complex. <i>Dalton Transactions</i> , <b>2009</b> , 9312-21	4.3	40
45	N <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> M Synthon as a Structure-Directing Tool: Crystal Structures of Some Perchlorometallates. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 216-223	3.5	40
44	Photochromism of arylchromenes: remarkable modification of absorption properties and lifetimes of o-quinonoid intermediates. <i>Organic Letters</i> , <b>2007</b> , 9, 919-22	6.2	39
43	An easy access to an organometallic low molecular weight gelator: a crystal engineering approach. <i>Tetrahedron Letters</i> , <b>2008</b> , 49, 3052-3055	2	38
42	Exploring hydrogen-bond capable backbone and ligating topologies: Co(II) coordination polymers derived from mixed ligand systems. <i>Journal of Molecular Structure</i> , <b>2006</b> , 796, 139-145	3.4	33
41	Metalloporphyrin-based inclusion materials: exploiting ligating topologies and hydrogen-bonding backbones in generating new supramolecular architectures. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 7351-61	5.1	31
40	Fluorous $\phi$ onyltails—lead to strong gelators showing thermally induced structure evolution. <i>Soft Matter</i> , <b>2015</b> , 11, 8471-8	3.6	30
39	Conformation dependent network structures in the coordination polymers derived from pyridylisonicotinamides, carboxylates and Co(II): Entrapment of (H <sub>2</sub> O) <sub>14</sub> water cluster of an unprecedented topology. <i>CrystEngComm</i> , <b>2007</b> , 9, 895	3.3	29
38	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> , <b>2008</b> , 11, 636-642	3.1	29
37	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> , <b>2007</b> , 9, 548-555	3.3	28
36	Solid state structural evidence of chloroform-benzene-chloroform adduct trapped in hexaanthryl octaaminocryptand channels. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 9600-1	16.4	28

35	Selective gelation of N-(4-pyridyl)nicotinamide by copper(II) salts. <i>CrystEngComm</i> , <b>2015</b> , 17, 8130-8138	3.3	27
34	Dirhodium paddlewheel with functionalized carboxylate bridges: new building block for self-assembly and immobilization on solid support. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 4855-61	5.1	27
33	Preferential binding of the magnesium ion by anthraquinone based chromogenic receptors. <i>Polyhedron</i> , <b>2007</b> , 26, 1317-1322	2.7	24
32	Microporous Nanotubular Self-Assembly of a Molecular Chair. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 2979-2983	3.5	23
31	Coordination polymers derived from a bis-pyridyl-bis-amide ligand: Supramolecular structural diversities and anion binding properties. <i>Inorganica Chimica Acta</i> , <b>2010</b> , 363, 1367-1376	2.7	22
30	Synthesis, characterization, physicochemical, and photophysical studies of redox switchable NIR dye derived from a ruthenium-dioxolene-porphyrin system. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 2414-25	5.1	22
29	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> , <b>2005</b> , 10, 496-508	3.7	22
28	Recyclable Dirhodium Catalysts Embedded in Nanoporous Surface-Functionalized Organosilica Hosts for Carbenoid-Mediated Cyclopropanation Reactions. <i>ChemCatChem</i> , <b>2010</b> , 2, 1461-1466	5.2	19
27	Anion responsive and morphology tunable tripodal gelators. <i>RSC Advances</i> , <b>2016</b> , 6, 83303-83311	3.7	16
26	Enhanced Mechanical and Thermal Strength in Mixed-Enantiomers-Based Supramolecular Gel. <i>Langmuir</i> , <b>2018</b> , 34, 12957-12967	4	15
25	Targeting of anionic membrane species by lanthanide(III) complexes: towards improved MRI contrast agents for apoptosis. <i>Chemical Communications</i> , <b>2011</b> , 47, 10245-7	5.8	13
24	Ultrafast dynamics and excited state deactivation of [Ru(bpy) <sub>2</sub> Sq] <sup>+</sup> and its derivatives. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 10197-203	3.4	12
23	Unraveling the Self-Assembly Modes in Multicomponent Supramolecular Gels Using Single-Crystal X-ray Diffraction. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3517-3527	9.6	11
22	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> , <b>2009</b> , 362, 1767-1771	2.7	11
21	Crystal habit modification of Cu(II) isonicotinate <sub>n</sub> -oxide complexes using gel phase crystallisation. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 19963-19970	3.6	11
20	Zinc(II) coordination polymers with pseudopeptidic ligands. <i>CrystEngComm</i> , <b>2011</b> , 13, 6997	3.3	10
19	Generation of Ir <sub>n</sub> and Rh <sub>n</sub> bonds from the oxidative addition of tin(IV) halides to [Ir(ECl)(1,5-COD)] <sub>2</sub> and [Rh(ECl)(1,5-COD)] <sub>2</sub> . <i>Journal of Organometallic Chemistry</i> , <b>2007</b> , 692, 5614-5620	2.3	9
18	Substitution of trans ligands in Exo-bis(Eacetato)diruthenium(III) complexes: Synthesis and kinetic studies. <i>Inorganica Chimica Acta</i> , <b>2009</b> , 362, 1101-1108	2.7	8

17	Metal complexation induced supramolecular gels for the detection of cyanide in water. <i>Supramolecular Chemistry</i> , <b>2020</b> , 32, 276-286	1.8	7
16	Tuning Gel State Properties of Supramolecular Gels by Functional Group Modification. <i>Molecules</i> , <b>2019</b> , 24,	4.8	6
15	Synthesis and characterization of asymmetric [Mo <sub>2</sub> O <sub>2</sub> (E <sub>5</sub> ) <sub>2</sub> (S <sub>2</sub> )(L)] complexes (L = bipy, en, dien) and their heterogeneous reaction with propylene sulfide. <i>Inorganica Chimica Acta</i> , <b>2020</b> , 501, 119272	2.7	6
14	Syntheses, spectral aspects and biological studies of bromide and azide bridged box dimer copper(II) complexes of an NNO donor aroylhydrazone. <i>Inorganica Chimica Acta</i> , <b>2020</b> , 501, 119301	2.7	6
13	Reaction Chemistry of the -[MoO(E <sub>5</sub> )(S)(DMF)] Complex with Cyanide and Catalytic Thiocyanate Formation. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 7644-7656	5.1	4
12	Highly Efficient Polarizing Agents for MAS-DNP of Proton-dense Molecular Solids.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	4
11	Hexa-chlorido-hexa-chlorido(η <sup>6</sup> -hexa-methyl-benzene)trialuminium(III)lanthanum(III) benzene solvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 65, m286-7		3
10	Role of -Oxide Moieties in Tuning Supramolecular Gel-State Properties. <i>Gels</i> , <b>2020</b> , 6,	4.2	3
9	Towards a selective synthetic route for cobalt amino acid complexes and their application in ring opening polymerization of -lactide.. <i>RSC Advances</i> , <b>2021</b> , 11, 16326-16338	3.7	3
8	Crystal Habit Modification of Metronidazole by Supramolecular Gels with Complementary Functionality. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 5383-5393	3.5	3
7	3,3′-[Ethane-1,2-diylbis[carbonylbis(azanediyl)]]dipyridinium tetra-chloridoplatinate(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2010</b> , 66, m270		2
6	X-Ray Crystallographic Investigations of an Azacryptand and its Bis-Protonated Salt: Interactions of Acyclic Water Trimer and C-H⋯Interactions in T-shaped Benzene Dimer. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2008</b> , 38, 2-11		2
5	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> , <b>2017</b> , 8, 2376-2388	3	1
4	Evaluating the role of a urea-like motif in enhancing the thermal and mechanical strength of supramolecular gels. <i>CrystEngComm</i> , <b>2021</b> , 23, 617-628	3.3	1
3	Enantioselective Gel Phase Synthesis of Metal-Organic Materials. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 24406-24410	16.4	
2	Enantioselective Gel Phase Synthesis of Metal-Organic Materials. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 24611	3.6	
1	Solid-State Structural Transformation and Photoluminescence Properties of Supramolecular Coordination Compounds. <i>Symmetry</i> , <b>2021</b> , 13, 112	2.7	