Krishna Kumar Damodaran

List of Publications by Year
in descending order

74	3,212	147726 31	149623 56
papers	citations	h-index	g-index

74	74	74	3540
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient and Simple Colorimetric Fluoride Ion Sensor Based on Receptors Having Urea and Thiourea Binding Sites. Organic Letters, 2004, 6, 3445-3448.	2.4	436
2	Supramolecular gel phase crystallization: orthogonal self-assembly under non-equilibrium conditions. Chemical Society Reviews, 2014, 43, 2080-2088.	18.7	247
3	Rugby-Ball-Shaped Sulfateâˆ’Waterâˆ’Sulfate Adduct Encapsulated in a Neutral Molecular Receptor Capsule. Inorganic Chemistry, 2007, 46, 5817-5819.	1.9	121
4	First snapshot of a nonpolymeric hydrogelator interacting with its gelling solvents. Chemical Communications, 2005, , 4059.	2.2	117
5	Strongly Coupled Rutheniumâˆ’Polypyridyl Complexes for Efficient Electron Injection in Dye-Sensitized Semiconductor Nanoparticles. Journal of Physical Chemistry B, 2005, 109, 15445-15453.	1.2	109
6	One-Dimensional Chains, Two-Dimensional Corrugated Sheets Having a Cross-Linked Helix in Metalâˆ’Organic Frameworks:â€‰ Exploring Hydrogen-Bond Capable Backbones and Ligating Topologies in Mixed Ligand Systems. Crystal Growth and Design, 2006, 6, 1903-1909.	1.4	99
7	Pharmaceutical polymorph control in a drug-mimetic supramolecular gel. Chemical Science, 2017, 8, 78-84.	3.7	94
8	Urea and thiourea based efficient colorimetric sensors for oxyanions. Tetrahedron Letters, 2005, 46, 5343-5346.	0.7	93
9	Nonpolymeric Hydrogelator Derived fromN-(4-Pyridyl)isonicotinamide. Langmuir, 2004, 20, 10413-10418.	1.6	80
10	Interfacial Electron Transfer between the Photoexcited Porphyrin Molecule and TiO2Nanoparticles:Â Effect of Catecholate Binding. Journal of Physical Chemistry B, 2006, 110, 9012-9021.	1.2	80
11	From Diamondoid Network to (4,4) Net:Â Effect of Ligand Topology on the Supramolecular Structural Diversity. Inorganic Chemistry, 2005, 44, 6933-6935.	1.9	76
12	Counteranion-Controlled Water Cluster Recognition in a Protonated Octaamino Cryptand. Inorganic Chemistry, 2005, 44, 7540-7546.	1.9	72
13	Metalâ€“organic frameworks derived from bis-pyridyl-bis-amide ligandsâ€‰:â€‰ Effect of positional isomerism of the ligands, hydrogen bonding backbone, counter anions on the supramolecular structures and selective crystallization of the sulfate anion. CrystEngComm, 2009, 11, 796.	1.3	71
14	Isomerism in Coordination Complexes and Polymers Derived from Bispyridylurea Ligands:â€‰ Effect of Solvents, Conformational Flexibility, and Positional Isomerism of the Ligands. Crystal Growth and Design, 2007, 7, 2096-2105.	1.4	64
15	Nonpolymeric Hydrogelators Derived from Trimesic Amides. Chemistry of Materials, 2004, 16, 2332-2335.	3.2	61
16	Zn(II) metalâ€“organic frameworks (MOFs) derived from a bis-pyridyl-bis-urea ligand: effects of crystallization solvents on the structures and anion binding properties. CrystEngComm, 2008, 10, 1565.	1.3	61
17	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. CrystEngComm, 2006, 8, 805.	1.3	58
18	Fluorescent Acridine-Based Receptors for H₂PO₄^{â€“}. Journal of Organic Chemistry, 2012, 77, 490-500.	1.7	58

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19	Remarkably Stable Porous Assembly of Nanorods Derived from a Simple Metalâ˜'Organic Framework. Crystal Growth and Design, 2007, 7, 205-207.	1.4	57
20	How Robust Is the Nâ˜'HÂ·Â·Â·Cl2â˜'Cu Synthon? Crystal Structures of Some Perchlorocuprates. Crystal Growth and Design, 2005, 5, 651-660.	1.4	54
21	Composites of N,Nâ€²-bis-(pyridyl) urea-dicarboxylic acid as new hydrogelatorsâ€"a crystal engineering approach. Tetrahedron, 2007, 63, 7386-7396.	1.0	54
22	Role of positional isomers on receptorâ€"anion binding and evidence for resonance energy transfer. Tetrahedron, 2007, 63, 12007-12014.	1.0	53
23	Supramolecular Synthons in Designing Low Molecular Mass Gelling Agents: <scp>L</scp>â€Amino Acid Methyl Ester Cinnamate Salts and their Antiâ€Solventâ€Induced Instant Gelation. Chemistry - an Asian Journal, 2011, 6, 1038-1047.	1.7	51
24	Exploring conformationally flexible hydrogen-bond-functionalized ligand and counter anions in metalâ€"organic frameworks of Cu(ii). New Journal of Chemistry, 2006, 30, 1267-1275.	1.4	48
25	DNA binding and cleavage properties of a newly synthesised Ru(II)-polypyridyl complex. Dalton Transactions, 2009, , 9312.	1.6	45
26	Photochromism of Arylchromenes:Â Remarkable Modification of Absorption Properties and Lifetimes ofo-Quinonoid Intermediates. Organic Letters, 2007, 9, 919-922.	2.4	42
27	An easy access to an organometallic low molecular weight gelator: a crystal engineering approach. Tetrahedron Letters, 2008, 49, 3052-3055.	0.7	41
28	Nâ˜'HÂ·Â·Â·Cl2â˜'M Synthon as a Structure-Directing Tool:â€‰ Crystal Structures of Some Perchlorometallates. Crystal Growth and Design, 2006, 6, 216-223.	1.4	40
29	Fluorous â€˜ponytailsâ€™ lead to strong gelators showing thermally induced structure evolution. Soft Matter, 2015, 11, 8471-8478.	1.2	36
30	Exploring hydrogen-bond capable backbone and ligating topologies: Co(II) coordination polymers derived from mixed ligand systems. Journal of Molecular Structure, 2006, 796, 139-145.	1.8	33
31	Selective gelation of N-(4-pyridyl)nicotinamide by copper(<scp>ii</scp>) salts. CrystEngComm, 2015, 17, 8130-8138.	1.3	33
32	Metalloporphyrin-Based Inclusion Materials:â€‰ Exploiting Ligating Topologies and Hydrogen-Bonding Backbones in Generating New Supramolecular Architectures. Inorganic Chemistry, 2007, 46, 7351-7361.	1.9	31
33	Dirhodium Paddlewheel with Functionalized Carboxylate Bridges: New Building Block for Self-Assembly and Immobilization on Solid Support. Inorganic Chemistry, 2012, 51, 4855-4861.	1.9	31
34	Solid State Structural Evidence of Chloroformâ˜'Benzeneâ˜'Chloroform Adduct Trapped in Hexaanthryl Octaaminocryptand Channels. Journal of the American Chemical Society, 2006, 128, 9600-9601.	6.6	30
35	Highly Efficient Polarizing Agents for MASâ€DNP of Protonâ€Dense Molecular Solids. Angewandte Chemie - International Edition, 2022, 61, .	7.2	30
36	Conformation dependent network structures in the coordination polymers derived from pyridylisonicotinamides, carboxylates and Co(ii): Entrapment of (H2O)14 water cluster of an unprecedented topology. CrystEngComm, 2007, 9, 895.	1.3	29

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37	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. Inorganic Chemistry Communication, 2008, 11, 636-642.	1.8	29
38	Supramolecular structural diversities in the metalâ€“organic frameworks derived from pyridylamide ligands: studying the effects of ligating topologies, hydrogen bonding backbone of the ligands and counter anions. CrystEngComm, 2007, 9, 548-555.	1.3	28
39	Preferential binding of the magnesium ion by anthraquinone based chromogenic receptors. Polyhedron, 2007, 26, 1317-1322.	1.0	26
40	Recyclable Dirhodium Catalysts Embedded in Nanoporous Surfaceâ€Functionalized Organosilica Hosts for Carbenoidâ€Mediated Cyclopropanation Reactions. ChemCatChem, 2010, 2, 1461-1466.	1.8	25
41	Enhanced Mechanical and Thermal Strength in Mixed-Enantiomers-Based Supramolecular Gel. Langmuir, 2018, 34, 12957-12967.	1.6	25
42	Microporous Nanotubular Self-Assembly of a Molecular Chair. Crystal Growth and Design, 2009, 9, 2979-2983.	1.4	24
43	Mixed-ligand complexes of ruthenium(II) containing new photoactive or electroactive ligands: synthesis, spectral characterization and DNA interactions. Journal of Biological Inorganic Chemistry, 2005, 10, 496-508.	1.1	23
44	Coordination polymers derived from a bis-pyridyl-bis-amide ligand: Supramolecular structural diversities and anion binding properties. Inorganica Chimica Acta, 2010, 363, 1367-1376.	1.2	23
45	Synthesis, Characterization, Physicochemical, and Photophysical Studies of Redox Switchable NIR Dye Derived from a Rutheniumâ^'Dioxoleneâ^'Porphyrin System. Inorganic Chemistry, 2005, 44, 2414-2425.	1.9	22
46	Syntheses, spectral aspects and biological studies of bromide and azide bridged box dimer copper(II) complexes of an NNO donor aroylhydrazone. Inorganica Chimica Acta, 2020, 501, 119301.	1.2	21
47	Unraveling the Self-Assembly Modes in Multicomponent Supramolecular Gels Using Single-Crystal X-ray Diffraction. Chemistry of Materials, 2020, 32, 3517-3527.	3.2	21
48	Anion responsive and morphology tunable tripodal gelators. RSC Advances, 2016, 6, 83303-83311.	1.7	19
49	Crystal habit modification of Cu(<scp>ii</scp>) isonicotinateâ€“N-oxide complexes using gel phase crystallisation. New Journal of Chemistry, 2018, 42, 19963-19970.	1.4	16
50	Metal complexation induced supramolecular gels for the detection of cyanide in water. Supramolecular Chemistry, 2020, 32, 276-286.	1.5	15
51	Targeting of anionic membrane species by lanthanide(iii) complexes: towards improved MRI contrast agents for apoptosis. Chemical Communications, 2011, 47, 10245.	2.2	13
52	Tuning Gel State Properties of Supramolecular Gels by Functional Group Modification. Molecules, 2019, 24, 3472.	1.7	13
53	Ultrafast Dynamics and Excited State Deactivation of [Ru(bpy)2Sq]+and Its Derivatives. Journal of Physical Chemistry B, 2006, 110, 10197-10203.	1.2	12
54	Zinc(ii) coordination polymers with pseudopeptidic ligands. CrystEngComm, 2011, 13, 6997.	1.3	12

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55	Exploring the effect of chain length of bridging ligands in coordination complexes and polymers derived from mixed ligand systems of pyridylnicotinamides and dicarboxylates. Inorganica Chimica Acta, 2009, 362, 1767-1771.	1.2	11
56	Crystal Habit Modification of Metronidazole by Supramolecular Gels with Complementary Functionality. Crystal Growth and Design, 2021, 21, 5383-5393.	1.4	11
57	Role of Nâ€“Oxide Moieties in Tuning Supramolecular Gel-State Properties. Gels, 2020, 6, 41.	2.1	10
58	Generation of Irâ€“Sn and Rhâ€“Sn bonds from the oxidative addition of tin(IV) halides to [Ir(Î¼-Cl)(1,5-COD)]2 and [Rh(Î¼-Cl)(1,5-COD)]2. Journal of Organometallic Chemistry, 2007, 692, 5614-5620.	0.8	9
59	Reaction Chemistry of the syn-[Mo₂O₂(Î¼-S)₂(S₂)(DMF)₃] Complex with Cyanide and Catalytic Thiocyanate Formation. Inorganic Chemistry, 2020, 59, 7644-7656.	1.9	9
60	Evaluating the role of a urea-like motif in enhancing the thermal and mechanical strength of supramolecular gels. CrystEngComm, 2021, 23, 617-628.	1.3	9
61	Substitution of trans ligands in Î¼-oxo-bis(Î¼-acetato)diruthenium(III) complexes: Synthesis and kinetic studies. Inorganica Chimica Acta, 2009, 362, 1101-1108.	1.2	8
62	Synthesis and characterization of asymmetric [Mo2O2(Î¼-S)2(S2)(L)] complexes (Lâ€¯=â€¯bipy, en, dien) and their heterogeneous reaction with propylene sulfide. Inorganica Chimica Acta, 2020, 501, 119272.	1.2	7
63	Enantioselective Gel Phase Synthesis of Metalâ€“Organic Materials. Angewandte Chemie - International Edition, 2021, 60, 24406-24410.	7.2	6
64	Making and Breaking of Gels: Stimuli-Responsive Properties of Bis(Pyridyl-N-oxide Urea) Gelators. Molecules, 2021, 26, 6420.	1.7	6
65	Towards a selective synthetic route for cobalt amino acid complexes and their application in ring opening polymerization of rac-lactide. RSC Advances, 2021, 11, 16326-16338.	1.7	5
66	Synthesis of new chiral Mn(<scp>iii</scp>)â€“salen complexes as recoverable and reusable homogeneous catalysts for the asymmetric epoxidation of styrenes and chromenes. New Journal of Chemistry, 2022, 46, 1308-1318.	1.4	5
67	Electron beam induced deposition of silacyclohexane and dichlorosilacyclohexane: the role of dissociative ionization and dissociative electron attachment in the deposition process. Beilstein Journal of Nanotechnology, 2017, 8, 2376-2388.	1.5	4
68	Hexa-Î¼-chlorido-hexachlorido(Î·⁶-hexamethylbenzene)trialuminium(III)lanthanum(III) benzene solvate. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m286-m287.	0.2	4
69	Xâ€Ray Crystallographic Investigations of an Azacryptand and its Bisâ€Protonated Salt: Interactions of Acyclic Water Trimer and Câ€Hâ€¦Ï€ Interactions in Tâ€shaped Benzene Dimer. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2008, 38, 2-11.	0.6	3
70	3,3â€²-{Ethane-1,2-diylbis[carbonylbis(azanediyl)]}dipyridinium tetrachloridoplatinate(II). Acta Crystallographica Section E: Structure Reports Online, 2010, 66, m270-m270.	0.2	2
71	Highly Efficient Polarizing Agents for MASâ€DNP of Protonâ€Dense Molecular Solids. Angewandte Chemie, 0, , .	1.6	1
72	Enantioselective Gel Phase Synthesis of Metalâ€Organic Materials. Angewandte Chemie, 2021, 133, 24611.	1.6	0

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73	Solid-State Structural Transformation and Photoluminescence Properties of Supramolecular Coordination Compounds. Symmetry, 2021, 13, 112.	1.1	0
74	Abstract 2807: Cytotoxic activity of novel organotin compounds against different cancer cell lines. , 2018, , .		0