

# Kotagiri Venkata Rao

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

2,068  
citations

279798

23  
h-index

377865

34  
g-index

35  
all docs

35  
docs citations

35  
times ranked

3477  
citing authors

#	ARTICLE	IF	CITATIONS
1	Noncovalent Functionalization, Exfoliation, and Solubilization of Graphene in Water by Employing a Fluorescent Coronene Carboxylate. <i>Chemistry - A European Journal</i> , 2010, 16, 2700-2704.	3.3	231
2	Supramolecular charge transfer nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1300-1313.	2.8	141
3	Quenching of fluorescence of aromatic molecules by graphene due to electron transfer. <i>Chemical Physics Letters</i> , 2011, 506, 260-264.	2.6	135
4	Highly Pure Solid-State White-Light Emission from Solution-Processable Soft Hybrids. <i>Advanced Materials</i> , 2013, 25, 1713-1718.	21.0	135
5	Thermally bisignate supramolecular polymerization. <i>Nature Chemistry</i> , 2017, 9, 1133-1139.	13.6	129
6	Light-Harvesting Hybrid Assemblies. <i>Chemistry - A European Journal</i> , 2012, 18, 2184-2194.	3.3	125
7	Perylene Based Porous Polyimides: Tunable, High Surface Area with Tetrahedral and Pyramidal Monomers. <i>Chemistry of Materials</i> , 2012, 24, 969-971.	6.7	115
8	Guest-Responsive Reversible Swelling and Enhanced Fluorescence in a Super-Absorbent, Dynamic Microporous Polymer. <i>Chemistry - A European Journal</i> , 2012, 18, 4505-4509.	3.3	99
9	Supramolecular Alternate Co-Assembly through a Non-Covalent Amphiphilic Design: Conducting Nanotubes with a Mixed D-A Structure. <i>Chemistry - A European Journal</i> , 2012, 18, 14286-14291.	3.3	81
10	Synthesis and Controllable Self-Assembly of a Novel Coronene Bisimide Amphiphile. <i>Organic Letters</i> , 2010, 12, 2656-2659.	4.6	77
11	High-Mobility Field Effect Transistors Based on Supramolecular Charge Transfer Nanofibres. <i>Advanced Materials</i> , 2013, 25, 559-564.	21.0	74
12	Self-Assembly of Mesoscopic Materials To Form Controlled and Continuous Patterns by Thermo-Optically Manipulated Laser Induced Microbubbles. <i>Langmuir</i> , 2013, 29, 14733-14742.	3.5	72
13	A Simple Method of Separating Metallic and Semiconducting Single-Walled Carbon Nanotubes Based on Molecular Charge Transfer. <i>Journal of the American Chemical Society</i> , 2010, 132, 5560-5561.	13.7	69
14	Extended phenylene based microporous organic polymers with selective carbon dioxide adsorption. <i>Journal of Materials Chemistry</i> , 2011, 21, 12958.	6.7	61
15	Non-covalent functionalization, solubilization of graphene and single-walled carbon nanotubes with aromatic donor and acceptor molecules. <i>Chemical Physics Letters</i> , 2010, 488, 198-201.	2.6	60
16	Redox-Active Metal-Organic Frameworks: Highly Stable Charge-Separated States through Strut/Guest-to-Strut Electron Transfer. <i>Chemistry - A European Journal</i> , 2015, 21, 11701-11706.	3.3	60
17	Organic-inorganic light-harvesting scaffolds for luminescent hybrids. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3055-3064.	5.5	56
18	Supramolecular Gating of Ion Transport in Nanochannels. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13073-13077.	13.8	42

#	ARTICLE	IF	CITATIONS
19	Dynamic, conjugated microporous polymers: visible light harvesting via guest-responsive reversible swelling. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 156-163.	2.8	41
20	Distinct Pathways in Thermally Bisignate Supramolecular Polymerization: Spectroscopic and Computational Studies. <i>Journal of the American Chemical Society</i> , 2020, 142, 598-605.	13.7	38
21	Porous polyimides from polycyclic aromatic linkers: Selective CO <sub>2</sub> capture and hydrogen storage. <i>Polymer</i> , 2014, 55, 1452-1458.	3.8	37
22	Exciplex Formation and Energy Transfer in a Self-Assembled Metal-Organic Hybrid System. <i>Chemistry - A European Journal</i> , 2012, 18, 5848-5852.	3.3	36
23	Dynamic Self-Assembly of Charge-Transfer Nanofibers of Tetrathiafulvalene Derivatives with F <sub>4</sub> TCNQ. <i>Chemistry - A European Journal</i> , 2011, 17, 12355-12361.	3.3	35
24	Solvent-free autocatalytic supramolecular polymerization. <i>Nature Materials</i> , 2022, 21, 253-261.	27.5	26
25	Adaptive Pores: Charge Transfer Modules as Supramolecular Handles for Reversible Pore Engineering of Mesoporous Silica. <i>Journal of the American Chemical Society</i> , 2013, 135, 10902-10905.	13.7	21
26	Supramolecular Depolymerization in the Mixture of Two Poor Solvents: Mechanistic Insights and Modulation of Supramolecular Polymerization of Ionic Systems. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5459-5466.	13.8	19
27	Supramolecular Switching of Ion-Transport in Nanochannels. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23458-23465.	8.0	14
28	Charge-Transfer Nanostructures through Noncovalent Amphiphilic Self-Assembly: Extended Cofacial Donor-Acceptor Arrays. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 161-169.	2.7	9
29	Supramolecular Depolymerization in the Mixture of Two Poor Solvents: Mechanistic Insights and Modulation of Supramolecular Polymerization of Ionic Systems. <i>Angewandte Chemie</i> , 2021, 133, 5519-5526.	2.0	8
30	Giant spin pumping at the ferromagnet (permalloy) organic semiconductor (perylene diimide) interface. <i>RSC Advances</i> , 2021, 11, 35567-35574.	3.6	7
31	Luminescent Polymer Films from Simple Processing of Coronene and Europium Precursors in Water. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3095-3100.	2.0	6
32	Confinement induced stochastic sensing of charged coronene and perylene aggregates in $\beta$ -hemolysin nanochannels. <i>Soft Matter</i> , 2013, 9, 10196.	2.7	4
33	Cooperative Supramolecular Polymerization Guided by Dispersive Interactions. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	3
34	Unexpected Effect of Cyano Groups on the Supramolecular Polymerization of Amide-appended Fan-shaped Monomers. <i>Chemistry Letters</i> , 2017, 46, 1093-1095.	1.3	1
35	Synthesis and Self-Assembly of Benzoperylene Benzimidazoles: Tunable Morphology with Aggregation-Induced Enhanced Emission. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	1