

# Associa€ProfªDr Koushik Venkatesan

## List of Publications by Year in descending order

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72  
papers

2,584  
citations

147801

31  
h-index

197818

49  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2786  
citing authors

#	ARTICLE	IF	CITATIONS
1	Field-induced conductance switching by charge-state alternation in organometallic single-molecule junctions. <i>Nature Nanotechnology</i> , 2016, 11, 170-176.	31.5	155
2	Dark-Field Oxidative Addition-Based Chemosensing: A New Bis-cyclometalated Pt(II) Complexes and Phosphorescent Detection of Cyanogen Halides. <i>Journal of the American Chemical Society</i> , 2006, 128, 16641-16648.	13.7	125
3	Metal-Free Triplet Phosphors with High Emission Efficiency and High Tunability. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6378-6382.	13.8	95
4	Triptycene based luminescent metal-organic gels for chemosensing. <i>Chemical Communications</i> , 2012, 48, 11127.	4.1	87
5	High-Conductive Organometallic Molecular Wires with Delocalized Electron Systems Strongly Coupled to Metal Electrodes. <i>Nano Letters</i> , 2014, 14, 5932-5940.	9.1	87
6	Columnar mesophases from half-discoid platinum cyclometalated metallomesogens. <i>Journal of Materials Chemistry</i> , 2008, 18, 400-407.	6.7	85
7	Stable and Tunable Phosphorescent Neutral Cyclometalated Au(III) Diaryl Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 11463-11472.	4.0	78
8	Metallic nanoparticle contacts for high-yield, ambient-stable molecular-monolayer devices. <i>Nature</i> , 2018, 559, 232-235.	27.8	75
9	Organometallic Single-Molecule Electronics: Tuning Electron Transport through $X(diphosphine)_2FeC_4Fe(diphosphine)_2X$ Building Blocks by Varying the Fe-Au Anchoring Scheme from Coordinative to Covalent. <i>Journal of the American Chemical Society</i> , 2014, 136, 14560-14569.	13.7	74
10	Charge Transport and Conductance Switching of Redox-Active Azulene Derivatives. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11781-11786.	13.8	67
11	Syntheses and Photophysical Properties of Luminescent Mono-cyclometalated Gold(III)cis-Dialkynyl Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 5430-5441.	4.0	64
12	Electronic Communication in Dinuclear $C_4$ -Bridged Tungsten Complexes. <i>Journal of the American Chemical Society</i> , 2010, 132, 3115-3127.	13.7	63
13	Tunable and Efficient White Light Phosphorescent Emission Based on Single Component N-Heterocyclic Carbene Platinum(II) Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 4733-4745.	4.0	63
14	Generation and Coupling of $[Mn(dmpe)_2(Ci\frac{1}{2}CR)(Ci\frac{1}{2}C)]$ . Radicals Producing Redox-Active $C_4$ -Bridged Rigid-Rod Complexes. <i>Chemistry - A European Journal</i> , 2003, 9, 6192-6206.	3.3	62
15	Syntheses and Tunable Emission Properties of 2-Alkynyl Azulenes. <i>Organic Letters</i> , 2012, 14, 1580-1583.	4.6	62
16	Impact of 2,6-connectivity in azulene: optical properties and stimuli responsive behavior. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7400.	5.5	59
17	Azulene based metal-organic frameworks for strong adsorption of $H_2$ . <i>Chemical Communications</i> , 2010, 46, 7981.	4.1	57
18	Organometallic manganese complexes as scaffolds for potential molecular wires. <i>Dalton Transactions</i> , 2007, , 1091.	3.3	56

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19	Stepwise Construction of an Iron-Substituted Rigid-Rod Molecular Wire: Targeting a Tetraferrocene-Tetracosane Decayne. <i>Journal of the American Chemical Society</i> , 2013, 135, 4051-4060.	13.7	53
20	1/4-Carbon-Carbon Bonds of Dinuclear Manganese Half-Sandwich Complexes as Electron Reservoirs. <i>Organometallics</i> , 2005, 24, 920-932.	2.3	51
21	1,2-Aminoamine-BF <sub>2</sub> Complexes: Aggregation-Induced Emission and Pronounced Effects of Aliphatic Rings on Radiationless Deactivation. <i>Chemistry - an Asian Journal</i> , 2012, 7, 2670-2677.	3.3	50
22	Facile Access to Redox-Active C2-Bridged Complexes with Half-Sandwich Manganese End Groups. <i>Chemistry - A European Journal</i> , 2004, 10, 4872-4885.	3.3	49
23	Highly Efficient Deep-Blue Emitters Based on <i>cis</i> and <i>trans</i> N-Heterocyclic Carbene Pt <sup>II</sup> Acetylide Complexes: Synthesis, Photophysical Properties, and Mechanistic Studies. <i>Chemistry - A European Journal</i> , 2013, 19, 15689-15701.	3.3	49
24	Synthesis and Luminescent Properties of <i>cis</i> Bis-N-Heterocyclic Carbene Platinum(II) Bis-Arylacetylide Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 1220-1228.	4.0	46
25	Tuning the Luminescent Properties of Pt(II) Acetylide Complexes through Varying the Electronic Properties of N-Heterocyclic Carbene Ligands. <i>Inorganic Chemistry</i> , 2014, 53, 756-771.	4.0	46
26	Monocyclometalated Gold(III) Monoaryl Complexes: A New Class of Triplet Phosphors with Highly Tunable and Efficient Emission Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 2585-2596.	3.3	45
27	Synthesis and Characterization of Redox-Active C4-Bridged Rigid-Rod Complexes with Acetylide-Substituted Manganese End Groups. <i>Organometallics</i> , 2005, 24, 2834-2847.	2.3	39
28	Carbon-Carbon Bonds of Manganese Half-Sandwich Complexes for Electron Reservoir Functions. <i>Organometallics</i> , 2004, 23, 1183-1186.	2.3	38
29	Incorporation of active metal sites in MOFs via in situ generated ligand deficient metal-linker complexes. <i>Chemical Communications</i> , 2011, 47, 11882.	4.1	35
30	Stable N-heterocyclic carbene (NHC) cyclometalated (C <sup>C</sup> ) gold(III) complexes as blue-green phosphorescence emitters. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3765-3769.	5.5	34
31	Harnessing White-Light Luminescence via Tunable Singlet and Triplet-Derived Emissions Based on Gold(III) Complexes *. <i>Chemistry - A European Journal</i> , 2017, 23, 9451-9456.	3.3	33
32	Monocyclometalated Gold(III) Complexes Bearing $\pi$ -Accepting Cyanide Ligands: Syntheses, Structural, Photophysical, and Electrochemical Investigations. <i>Inorganic Chemistry</i> , 2015, 54, 10748-10760.	4.0	32
33	An Iron-Capped Metal-Organic Polyene: {[Fe](C <sub>60</sub> ) <sub>2</sub> [W]CC[W](C <sub>60</sub> ) <sub>2</sub> [Fe]}. <i>Journal of the American Chemical Society</i> , 2010, 132, 7584-7585.	13.7	31
34	Metallacumulenes as Potential Electron Reservoir Devices. <i>Organometallics</i> , 2006, 25, 5190-5200.	2.3	30
35	Solvent Stabilization and Hydrogenation Catalysis of Trimethylphosphine-Substituted Carbonyl Rhenium Cations. <i>Organometallics</i> , 2004, 23, 3153-3163.	2.3	29
36	New Access to Homodinuclear Half-Sandwich Vinylidenemanganese Complexes. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 901-909.	2.0	29

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37	Luminescent monocyclometalated cationic gold(III) complexes: synthesis, photophysical characterization and catalytic investigations. Dalton Transactions, 2014, 43, 11959.	3.3	29
38	A facile and novel route to unprecedented manganese C <sub>4</sub> cumulenic complexes. Chemical Communications, 2003, , 2006-2008.	4.1	27
39	Anticancer Profile of a Series of Gold(III) (2-phenyl)pyridine Complexes. ChemMedChem, 2014, 9, 2781-2790.	3.2	27
40	Mono- and Dinuclear High-Spin Half-Sandwich Manganese(II) Complexes Containing Acetylide and TMEDA Ligands. European Journal of Inorganic Chemistry, 2004, 2004, 3544-3554.	2.0	22
41	Development of tethered dual catalysts: synergy between photo- and transition metal catalysts for enhanced catalysis. Chemical Science, 2020, 11, 6256-6267.	7.4	20
42	(Benzimidazolylidene)Au <sup>I</sup> Alkynyl Complexes: Syntheses, Structure, and Photophysical Properties. European Journal of Inorganic Chemistry, 2012, 2012, 1750-1763.	2.0	19
43	Rationally Designed Blue Triplet Emitting Gold(III) Complexes Based on a Phenylpyridine-Derived Framework. Chemistry - A European Journal, 2017, 23, 3837-3849.	3.3	19
44	Synthetic Access to Half-Sandwich Manganese C <sub>4</sub> Cumulenic Complexes. Organometallics, 2004, 23, 4661-4671.	2.3	18
45	Electronic communication in phosphine substituted bridged dirhenium complexes – clarifying ambiguities raised by the redox non-innocence of the C <sub>4</sub> H <sub>2</sub> - and C <sub>4</sub> -bridges. Dalton Transactions, 2016, 45, 5783-5799.	3.3	18
46	Dinuclear and Mononuclear Chromium Acetylide Complexes. European Journal of Inorganic Chemistry, 2012, 2012, 1536-1545.	2.0	17
47	Highly Stable and Strongly Emitting <i>N</i> -Heterocyclic Carbene Platinum(II) Biaryl Complexes. Inorganic Chemistry, 2018, 57, 8160-8168.	4.0	16
48	Thermally Robust and Tuneable Phosphorescent Gold(III) Complexes Bearing (N <sup>N</sup> ) <sup>+</sup> Type Bidentate Ligands as Ancillary Chelates. Chemistry - A European Journal, 2019, 25, 3627-3636.	3.3	16
49	Towards blue emitting monocyclometalated gold(III) complexes – synthesis, characterization and photophysical investigations. Dalton Transactions, 2019, 48, 7320-7330.	3.3	16
50	Conceptual advances in the preparation and excited-state properties of neutral luminescent (C <sup>N</sup> ) and (C <sup>C</sup> <sup>*</sup> ) monocyclometalated gold(III) complexes. Coordination Chemistry Reviews, 2021, 449, 214182.	18.8	15
51	Self-Coupling of a 4-Butatrienylidene Tungsten Complex. Angewandte Chemie - International Edition, 2009, 48, 5203-5206.	13.8	14
52	Tunable Membrane Potential Reconstituted in Giant Vesicles Promotes Permeation of Cationic Peptides at Nanomolar Concentrations. ACS Applied Materials & Interfaces, 2018, 10, 41909-41916.	8.0	13
53	Structural and Electronic Variations of sp <sup>2</sup> Carbon-Based Bridges in Di- and Trinuclear Redox-Active Iron Complexes Bearing Fe(diphosphine) <sub>2</sub> X (X = I, NCS) Moieties. Organometallics, 2015, 34, 408-418.	2.3	10
54	Smectic A mesophases from luminescent sandic platinum(II) mesogens. Liquid Crystals, 2016, 43, 1709-1713.	2.2	10

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55	Ladungstransport und Leitfähigkeitsschalten von redoxaktiven Azulen-Derivaten. <i>Angewandte Chemie</i> , 2016, 128, 11956-11961.	2.0	10
56	Tunable Light Emission Properties of Solution-Processable N-Heterocyclic Carbene Cyclometalated Gold(III) Complexes for Organic Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2021, 27, 7265-7274.	3.3	10
57	Recent Advances in the Development of Blue and Deep-Blue Emitting Gold(I) and Gold(III) Molecular Systems. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 4890-4902.	2.0	10
58	Surface Plasmon-Coupled Dual Emission Platform for Ultrafast Oxygen Monitoring after SARS-CoV-2 Infection. <i>ACS Sensors</i> , 2021, 6, 4360-4368.	7.8	10
59	Chemistry of chromium bis-acetylide complexes. <i>Monatshefte für Chemie</i> , 2009, 140, 845-857.	1.8	9
60	The Search for Efficient True Blue and Deep Blue Emitters: An Overview of Platinum Carbene Acetylide Complexes. <i>ChemPlusChem</i> , 2022, 87, e202200014.	2.8	9
61	trans Bis-N-heterocyclic carbene bis-acetylide palladium(II) complexes. <i>Journal of Organometallic Chemistry</i> , 2012, 700, 154-159.	1.8	8
62	Stable and color tunable emission properties based on non-cyclometalated gold( $\text{I}$ ) complexes. <i>Dalton Transactions</i> , 2015, 44, 10003-10013.	3.3	8
63	Synthesis and Characterization of Mononuclear and Dinuclear Manganese Bis-acetylide Complexes. <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> , 2009, 635, 1391-1401.	1.2	5
64	[W(CO)(dppe) <sub>2</sub> ] Cumulenylidene and Acetylide Complexes Accessed via Stannylated Acetylenes and Butadiynes. <i>Organometallics</i> , 2010, 29, 6321-6328.	2.3	5
65	Design and synthesis of boron complexes as new Raman reporter molecules for sensitive SERS nanotags. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 2408-2415.	2.5	5
66	Fabrication of bow-tie antennas with mechanically tunable gap sizes below 5 nm for single-molecule emission and Raman scattering. , 2015, , .		4
67	Concentration Effect in Surface Plasmon-Coupled Phosphorescence (SPCP) Emission Engineering with Augmented S-Polarization from N-Heterocyclic Carbene Platinum(II) Complexes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16681-16688.	3.1	3
68	Monocyclometalated (C <sup>N</sup> ) Gold(III) Metallacycles: Tunable Emission and Singlet Oxygen ( $^1\text{O}_2$ ) Generation Properties. <i>Chemistry - A European Journal</i> , 2021, 27, 14410-14417.	3.3	3
69	Nickel catalyzed synthesis of 4,4'-bichromenes/4,4'-bithiochromenes and their Atropisomerism. <i>Organic Chemistry Frontiers</i> , 2019, 6, 134-139.	4.5	1
70	Frontispiece: Rationally Designed Blue Triplet Emitting Gold(III) Complexes Based on a Phenylpyridine-Derived Framework. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0
71	Frontispiece: Harnessing White-Light Luminescence via Tunable Singlet and Triplet-Derived Emissions Based on Gold(III) Complexes *. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0
72	Monocyclometalated (C <sup>N</sup> ) Gold(III) Metallacycles: Tunable Emission and Singlet Oxygen ( $^1\text{O}_2$ ) Generation Properties. <i>Chemistry - A European Journal</i> , 2021, 27, 14358.	3.3	0