

# Chullikkattil P Pradeep

## List of Publications by Year in descending order

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93  
papers

2,635  
citations

236925

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94  
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	The Construction of High-Nuclearity Isopolyoxoniobates with Pentagonal Building Blocks: $[\text{HNb}_{27}\text{O}_{76}]^{16-}$ and $[\text{H}_{10}\text{Nb}_{31}\text{O}_{93}(\text{CO}_3)_3]^{23-}$ . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 113-116.	13.8	176
2	Supramolecular Metal Oxides: Programmed Hierarchical Assembly of a Protein-Sized 21-kDa $[(\text{C}_{16}\text{H}_{36}\text{N})_{19}\{\text{H}_2\text{NC}(\text{CH}_2)_2\text{O}\}_3\text{P}_{18}\text{S}_{18}]^{3-}$ Polyoxometalate Assembly. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4388-4391.	13.8	168
3	Synthesis of Modular Inorganic-Organic Polyoxometalates and Their Assembly into Vesicles. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8309-8313.	13.8	162
4	Micropatterned Surfaces with Covalently Grafted Unsymmetrical Polyoxometalate-Hybrid Clusters Lead to Selective Cell Adhesion. <i>Journal of the American Chemical Society</i> , 2009, 131, 1340-1341.	13.7	153
5	Cations in control: crystal engineering polyoxometalate clusters using cation directed self-assembly. <i>Dalton Transactions</i> , 2010, 39, 9443.	3.3	140
6	Controlled assembly and solution observation of a 2.6 nm polyoxometalate super-tetrahedron cluster: $[\text{KFe}_{12}(\text{OH})_{18}(\text{L}^{-1,2,3}\text{-P}_2\text{W}_{15}\text{O}_{56})_4]_{29}^{4-}$ . <i>Chemical Communications</i> , 2007, , 4254.	4.1	115
7	Assembly of Modular Asymmetric Organic-Inorganic Polyoxometalate Hybrids into Anisotropic Nanostructures. <i>Journal of the American Chemical Society</i> , 2010, 132, 15490-15492.	13.7	101
8	Coordination and supramolecular aspects of the metal complexes of chiral N-salicyl- $\beta$ -amino alcohol Schiff base ligands: Towards understanding the roles of weak interactions in their catalytic reactions. <i>Coordination Chemistry Reviews</i> , 2013, 257, 1699-1715.	18.8	96
9	Controllable Self-Assembly of Organic-Inorganic Amphiphiles Containing Dawson Polyoxometalate Clusters. <i>Chemistry - A European Journal</i> , 2012, 18, 8157-8162.	3.3	89
10	Bottom-Up Meets Top-Down Assembly in Nanoscale Polyoxometalate Clusters: Self-Assembly of $[\text{P}_4\text{W}_{52}\text{O}_{178}]^{24-}$ and Disassembly to $[\text{P}_3\text{W}_{39}\text{O}_{134}]^{19-}$ . <i>Journal of the American Chemical Society</i> , 2008, 130, 14946-14947.	13.7	61
11	Design and Synthesis of Dumbbell- and Triangular-Inorganic-Organic Hybrid Nanopolyoxometalate Clusters and Their Characterisation through ESI-MS Analyses. <i>Chemistry - A European Journal</i> , 2011, 17, 7472-7479.	3.3	57
12	A chemosensor for micro- to nano-molar detection of $\text{Ag}^+$ and $\text{Hg}^{2+}$ ions in pure aqueous media and its applications in cell imaging. <i>Dalton Transactions</i> , 2017, 46, 14201-14209.	3.3	54
13	Amphiphilic Properties of Dumbbell-Shaped Inorganic-Organic Inorganic Molecular Hybrid Materials in Solution and at an Interface. <i>Langmuir</i> , 2011, 27, 9193-9202.	3.5	44
14	Engineering Multifunctionality in Hybrid Polyoxometalates: Aromatic Sulfonium Octamolybdates as Excellent Photochromic Materials and Self-Separating Catalysts for Epoxidation. <i>Inorganic Chemistry</i> , 2017, 56, 10325-10336.	4.0	44
15	A uracil nitroso amine based colorimetric sensor for the detection of $\text{Cu}^{2+}$ ions from aqueous environment and its practical applications. <i>RSC Advances</i> , 2015, 5, 21464-21470.	3.6	37
16	Imatinib intermediate as a two in one dual channel sensor for the recognition of $\text{Cu}^{2+}$ and $\text{I}^-$ ions in aqueous media and its practical applications. <i>Dalton Transactions</i> , 2014, 43, 13299-13306.	3.3	35
17	Chiral supramolecular metal-organic architectures from dinuclear copper complexes. <i>Polyhedron</i> , 2009, 28, 630-636.	2.2	33
18	Programmable Surface Architectures Derived from Hybrid Polyoxometalate-Based Clusters. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4446-4455.	3.1	33

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19	New Polyoxometalates Containing Hybrid Polymers and Their Potential for Nano-Patterning. <i>Chemistry - A European Journal</i> , 2015, 21, 2250-2258.	3.3	32
20	Recent advances in non-chemically amplified photoresists for next generation IC technology. <i>RSC Advances</i> , 2016, 6, 74462-74481.	3.6	32
21	A fluorescence "turn-on" chemodosimeter for selective detection of Nb <sup>5+</sup> ions in mixed aqueous media. <i>Dalton Transactions</i> , 2013, 42, 12819.	3.3	31
22	First structurally characterized optically active mononuclear Mn(IV) complex: synthesis, crystal structure and properties of [Mn(IV)L <sub>2</sub> ]{H <sub>2</sub> L = S-( $\alpha$ )-2-[(2-hydroxy-1-phenylethylimino)methyl]phenol}. <i>New Journal of Chemistry</i> , 2004, 28, 735-739.	2.8	30
23	Design, development, EUVL applications and nano mechanical properties of a new HfO <sub>2</sub> based hybrid non-chemically amplified resist. <i>RSC Advances</i> , 2016, 6, 67143-67149.	3.6	28
24	A tetra-nuclear copper(II) complex stabilizes an extended structure of a water nonamer: Synthesis and characterization of [Cu <sub>4</sub> (C <sub>5</sub> H <sub>4</sub> N <sub>4</sub> O <sub>14</sub> )(OH) <sub>2</sub> ] · 10H <sub>2</sub> O. <i>Polyhedron</i> , 2006, 25, 3588-3592.	2.2	27
25	Cocrystals/salt of 1-naphthaleneacetic acid and utilizing Hirshfeld surface calculations for acid-aminopyrimidine synthons. <i>CrystEngComm</i> , 2020, 22, 2978-2989.	2.6	27
26	A cytochrome C encapsulated metal organic framework as a bio-material for sulfate ion recognition. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8628-8631.	10.3	26
27	Synthesis, structural characterization and properties of an optically active mononuclear Mn(IV) complex. <i>Polyhedron</i> , 2005, 24, 1410-1416.	2.2	25
28	ESIPT induced AIEE active material for recognition of 2-thiobarbituric acid. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 445-449.	7.8	25
29	Aromatic Sulfonium Polyoxomolybdates: Solid State Photochromic Materials with Tunable Properties. <i>Chemistry - A European Journal</i> , 2015, 21, 18557-18562.	3.3	25
30	Enantiopure Mono- and Mixed-Valence Multinuclear Cobalt Complexes from Amino Alcohol Based Ligands. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 5377-5389.	2.0	23
31	Au microparticles mediated construction of a logic based dual channel molecular keypad lock. <i>Dalton Transactions</i> , 2013, 42, 7514.	3.3	23
32	Exploring the Interplay Between Ligand Derivatisation and Cation Type in the Assembly of Hybrid Polyoxometalate Mn-Andersons. <i>Small</i> , 2013, 9, 2316-2324.	10.0	23
33	Fluorescent chemosensor for Al(III) based on chelation-induced fluorescence enhancement and its application in live cells imaging. <i>Inorganica Chimica Acta</i> , 2020, 511, 119805.	2.4	23
34	A hybrid polymeric material bearing a ferrocene-based pendant organometallic functionality: synthesis and applications in nanopatterning using EUV lithography. <i>RSC Advances</i> , 2014, 4, 59817-59820.	3.6	21
35	Ratiometric Detection of Adenosine-5-triphosphate (ATP) and Cytidine-5-triphosphate (CTP) with a Fluorescent Spider-Like Receptor in Water. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 122-129.	2.4	21
36	Polyarylenesulfonium Salt as a Novel and Versatile Nonchemically Amplified Negative Tone Photoresist for High-Resolution Extreme Ultraviolet Lithography Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 17-21.	8.0	21

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37	Synthesis and characterization of a chiral dimeric copper(II) complex: Crystal structure of $[Cu_2(\text{L}^1/4\text{-Cl})_2(\text{HL})_2]\cdot\text{H}_2\text{O}$ ( $\text{H}_2\text{L} = \text{S}(\text{Ar})-2-[(2\text{-hydroxy-1-phenyl-ethylimino)-methyl}]\text{-phenol}$ ). <i>Journal of Chemical Sciences</i> , 2005, 117, 133-137.	1.5	20
38	A Chiral Copper Complex Forms Supramolecular Homochiral Helices via O-H $\cdots$ Cl-Cu Interactions. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3405-3408.	2.0	20
39	Self-assembly of triangular polyoxometalate-organic hybrid macroions in mixed solvents. <i>Chemical Communications</i> , 2015, 51, 8630-8633.	4.1	20
40	A sandwich-type zinc complex from a rhodamine dye based ligand: a potential fluorescent chemosensor for acetate in human blood plasma and a molecular logic gate with INHIBIT function. <i>New Journal of Chemistry</i> , 2016, 40, 1269-1277.	2.8	20
41	Spectroscopic, Structural, DFT and Molecular Docking Studies on Novel Cocrystal Salt Hydrate of Chromotropic Acid and Its Antibiofilm Activity. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 353-364.	3.0	20
42	Self-assembled material of palladium nanoparticles and a thiacalix[4]arene $Cd(\text{L})$ complex as an efficient catalyst for nitro-phenol reduction. <i>New Journal of Chemistry</i> , 2015, 39, 8130-8135.	2.8	19
43	Multifunctional Zn(II) Complexes: Photophysical Properties and Catalytic Transesterification toward Biodiesel Synthesis. <i>Inorganic Chemistry</i> , 2016, 55, 7492-7500.	4.0	19
44	Identification of O-H $\cdots$ O interactions among inorganic coordination complex molecules in the crystal lattice of a chiral Mn(IV) compound. <i>Inorganic Chemistry Communication</i> , 2008, 11, 89-93.	3.9	18
45	Mechanochemical synthesis and structural characterization of three novel cocrystals of dimethylglyoxime with N-heterocyclic aromatic compounds and acetamide. <i>Journal of Molecular Structure</i> , 2017, 1150, 103-111.	3.6	18
46	Facile Synthesis of an Organic Solid State Near-Infrared-Emitter with Large Stokes Shift via Excited-State Intramolecular Proton Transfer. <i>ACS Omega</i> , 2018, 3, 14341-14348.	3.5	18
47	ESIPT-Induced Carbazole-Based AIEE Material for Nanomolar Detection of $Cu^{2+}$ and $CN^-$ Ions: A Molecular Keypad Security Device. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2457-2463.	2.0	17
48	Cyanide induced self assembly and copper recognition in human blood serum by a new carbazole AIEE active material. <i>Materials Science and Engineering C</i> , 2014, 43, 418-423.	7.3	16
49	New triangular steroid-based A(LS) <sub>3</sub> type gelators for selective fluoride sensing application. <i>RSC Advances</i> , 2014, 4, 27098-27105.	3.6	15
50	Cocrystals of indole-3-acetic acid and indole-3-butyric acid: Synthesis, structural characterization and Hirshfeld surface analysis. <i>Journal of Molecular Structure</i> , 2018, 1166, 202-213.	3.6	15
51	Synthesis of a New Series of Organic Solid-State Near-Infrared Emitters: The Role of Crystal Packing and Weak Intermolecular Interactions and Application in Latent Fingerprint Detection. <i>Crystal Growth and Design</i> , 2021, 21, 1062-1076.	3.0	15
52	Synthesis and structural characterization of a carboxylate bridged tetranuclear copper complex derived from reduced Schiff base asymmetric compartmental ligand containing an amino acid side arm. <i>Inorganic Chemistry Communication</i> , 2006, 9, 1071-1074.	3.9	14
53	A radiation sensitive hybrid polymer based on an Mn-Anderson polyoxometalate cluster and a UV active organic monomer: synergistic effects lead to improved photocurrent in a photoresponse device. <i>RSC Advances</i> , 2015, 5, 36727-36731.	3.6	14
54	A Tris(hydroxymethyl)aminomethane-Rhodamine Spirolactam Derivative as Dual Channel pH and Water Sensor and Its Application to Bio Imaging. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 4650-4657.	2.4	13

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55	Organic-inorganic hybrid photoresists containing hexafluoroantimonate: design, synthesis and high resolution EUV lithography studies. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2613-2619.	5.9	13
56	Intramolecular hydrogen transfer in (S)-2-[(1-benzyl-2-hydroxyethylimino)methyl]-4-nitrophenol, a new chiral Schiff base. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o3825-o3827.	0.2	12
57	Nano dispersion of 3D Cd(ii) coordination polymer: synthetic blood plasma anticoagulant. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 163.	6.0	12
58	Modulating sensitivity and detection mechanism with spacer length: a new series of fluorescent turn on chemodosimeters for Pb <sup>2+</sup> based on rhodamine-quinoline conjugates. <i>RSC Advances</i> , 2016, 6, 112728-112736.	3.6	12
59	Heavy metal incorporated helium ion active hybrid non-chemically amplified resists: Nano-patterning with low line edge roughness. <i>AIP Advances</i> , 2017, 7, 085314.	1.3	12
60	A chiral Mn(IV) complex and its supramolecular assembly: Synthesis, characterization and properties. <i>Journal of Chemical Sciences</i> , 2006, 118, 311-317.	1.5	11
61	Supramolecular coordination chemistry. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2007, 103, 287.	0.8	11
62	Synthesis, structure, self-assembly and genotoxicity evaluation of a series of Mn-Anderson cluster based polyoxometalate-organic hybrids. <i>RSC Advances</i> , 2015, 5, 59609-59615.	3.6	11
63	[P <sub>2</sub> V <sub>3</sub> W <sub>15</sub> O <sub>62</sub> ] <sup>9-</sup> cluster based covalent polyoxometalate-organic hybrid: Synthesis, structure, self-assembly and in vitro antioxidant activities. <i>Inorganic Chemistry Communication</i> , 2015, 56, 65-68.	3.9	11
64	A photoacid generator integrated terpolymer for electron beam lithography applications: sensitive resist with pattern transfer potential. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1895-1899.	5.9	11
65	Aromatic sulfonium polyoxomolybdates: tuning the photochromic properties through substitutions on the counter ion moiety. <i>CrystEngComm</i> , 2018, 20, 2733-2740.	2.6	11
66	An organic-inorganic hybrid supramolecular framework material based on a [P <sub>2</sub> W <sub>18</sub> O <sub>62</sub> ] <sup>6-</sup> cluster and Yb & Na complexes of pyridine-2,6-dicarboxylic acid: a catalyst for selective oxidation of sulfides in water with H <sub>2</sub> O <sub>2</sub> . <i>CrystEngComm</i> , 2016, 18, 4272-4276.	2.6	10
67	Nickel-sodium pyrene tetrasulfonic acid based co-ordination polymer as fluorescent template for recognition of azo dyes. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 586-592.	7.8	10
68	Patterning highly ordered arrays of complex nanofeatures through EUV directed polarity switching of non chemically amplified photoresist. <i>Scientific Reports</i> , 2016, 6, 22664.	3.3	9
69	A general route for the transfer of large, highly-charged polyoxometalates from aqueous to organic phase. <i>Polyhedron</i> , 2013, 52, 159-164.	2.2	8
70	Benzimidazole Based Turn on™ Fluorescent Chemodosimeter for Zinc Ions in Mixed Aqueous Medium. <i>Journal of Fluorescence</i> , 2016, 26, 1439-1445.	2.5	8
71	Post-functionalization through covalent modification of organic counter ions: a stepwise and controlled approach for novel hybrid polyoxometalate materials. <i>Dalton Transactions</i> , 2020, 49, 12174-12179.	3.3	8
72	2,2-(Arylenedivinylene)bis-8-hydroxyquinolines exhibiting aromatic π-π stacking interactions as solution-processable p-type organic semiconductors for high-performance organic field effect transistors. <i>Materials Advances</i> , 0, , .	5.4	8

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73	Modulation of photocatalytic properties through counter-ion substitution: tuning the bandgaps of aromatic sulfonium octamolybdates for efficient photo-degradation of rhodamine B. Dalton Transactions, 2022, 51, 3122-3136.	3.3	8
74	Extensive Analyses on Expanding the Scope of Acidic Aminopyrimidine Synthons for the Design of Molecular Solids. Crystal Growth and Design, 2022, 22, 4316-4331.	3.0	7
75	A Facile Synthetic Strategy for Decavanadate and Transition Metal Based All-Inorganic Coordination Polymers and Insights into Their Electrocatalytic OER Activity. European Journal of Inorganic Chemistry, 2022, 2022, .	2.0	6
76	Al <sup>3+</sup> -Phenanthroline Xerogel for Dual Application: Catalyst for Knoevenagel Condensation and Fluorescent Chemosensor for Azo Dyes. ChemistrySelect, 2016, 1, 3371-3376.	1.5	5
77	Vanadium Cluster-Based Inorganic-Organic Covalent Hybrids: Synthesis, Structure and In Vitro Antioxidant Properties. ChemistrySelect, 2017, 2, 11235-11239.	1.5	5
78	Synthesis, Crystal Structure and Substituent Controlled Photoluminescence and Chemosensing Properties of a Series of 2,2'-(Arylene-divinylene)bis-8-hydroxyquinolines. ChemistrySelect, 2020, 5, 5429-5436.	1.5	5
79	New non-chemically amplified molecular resist design with switchable sensitivity for multi-lithography applications and nanopatterning. Journal of Micromechanics and Microengineering, 2017, 27, 125010.	2.6	4
80	Understanding of Twisted Intramolecular Charge Transfer and Solid-State Emission Behavior of Benzimidazole Derivatives. ChemistrySelect, 2017, 2, 10517-10523.	1.5	4
81	Enhanced mechanical properties of the high-resolution EUVL patterns of hybrid photoresists containing hexafluoroantimonate. Microelectronic Engineering, 2018, 194, 100-108.	2.4	4
82	A Fused Benzothiazolo-Pyrimidine-Based Chemosensor for Selective Optical Detection of Fe <sup>3+</sup> and I <sup>-</sup> Ions in Aqueous Media. ChemistrySelect, 2019, 4, 4185-4189.	1.5	4
83	Mono- and Rare Trinuclear Zn(II) Complexes with Near-Infrared Emissive Ligands: Anion-Responsive Nuclearity Control, Interconversion, Solid-State NIR Emission, and Latent Fingerprint Imaging. Crystal Growth and Design, 0, .	3.0	4
84	Dipicolinimidamide functionalized chromogenic chemosensor for recognition of Cu <sup>2+</sup> ions and its applications. Sensors International, 2021, 2, 100075.	8.4	3
85	A New Class of Water-Soluble Aryl Sulfonium Decavanadates and Their Antioxidant Activity: Effects of Cluster Reduction and Counter Ion Substitution on Activity. European Journal of Inorganic Chemistry, 2022, 2022, .	2.0	3
86	Substituent-Controlled Structural, Supramolecular, and Cytotoxic Properties of a Series of 2-Styryl-8-nitro and 2-Styryl-8-hydroxy Quinolines. ACS Omega, 2022, 7, 24838-24850.	3.5	3
87	Nickel(II) complexes of tridentate anthracene based Schiff bases: syntheses, properties and crystal structures. Journal of Coordination Chemistry, 2006, 59, 671-680.	2.2	2
88	Ion mediated charge carrier transport in a novel radiation sensitive polyoxometalate-polymer hybrid. RSC Advances, 2016, 6, 44838-44842.	3.6	2
89	Ferrocene Bearing Non-ionic Poly-aryl Tosylates: Synthesis, Characterization and Electron Beam Lithography Applications. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 669-678.	0.3	2
90	Evaluation of high-resolution and sensitivity of n-CAR hybrid resist for sub-16nm or below technology node. , 2018, , .		2

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91	Et 3 Nâ€Prompted Efficient Synthesis of Anthracenyl Pyrazolines and Their Cytotoxicity Evaluation against Cancer Cell Lines. <i>Journal of Heterocyclic Chemistry</i> , 2019, 56, 2469-2478.	2.6	1
92	Crystal structure and Hirshfeld surface analysis of <i>rac</i> -[2-(4-chlorophenyl)-3,4-dihydro-2 <i>H</i> -1-benzopyran-4-ylidene]hydrazine-1-carbothioamide. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019, 75, 707-710.	0.5	1
93	Facile Synthesis of Large Wrinkled Gold Nanoparticles Using Anthraceneâ€Terminated Tripodal Amine Ligand and their Catalytic Efficiency. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4516-4522.	2.0	0