

# Chullikkattil P Pradeep

## List of Publications by Year in descending order

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93  
papers

2,635  
citations

236925

25  
h-index

206112

48  
g-index

94  
all docs

94  
docs citations

94  
times ranked

2550  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | 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         |
| 2  | 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         |
| 3  | Extensive Analyses on Expanding the Scope of Acid-Responsive Aminopyrimidine Synthons for the Design of Molecular Solids. Crystal Growth and Design, 2022, 22, 4316-4331.   | 3.0 | 7         |
| 4  | 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         |
| 5  | 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         |
| 6  | Spectroscopic, Structural, DFT and Molecular Docking Studies on Novel Cocrystal Salt Hydrate of Chromotropic Acid and Its Antibiofilm Activity. Arabian Journal for Science and Engineering, 2021, 46, 353-364.                               | 3.0 | 20        |
| 7  | Dipicolinimidamide functionalized chromogenic chemosensor for recognition of Cu <sup>2+</sup> ions and its applications. Sensors International, 2021, 2, 100075.  | 8.4 | 3         |
| 8  | 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. Crystal Growth and Design, 2021, 21, 1062-1076.    | 3.0 | 15        |
| 9  | Post-functionalization through covalent modification of organic counter ions: a stepwise and controlled approach for novel hybrid polyoxometalate materials. Dalton Transactions, 2020, 49, 12174-12179.                                      | 3.3 | 8         |
| 10 | Synthesis, Crystal Structure and Substituent Controlled Photoluminescence and Chemosensing Properties of a Series of 2,2'-bis(arylenevinylene)bis(8-hydroxyquinolines). ChemistrySelect, 2020, 5, 5429-5436.                                  | 1.5 | 5         |
| 11 | Fluorescent chemosensor for Al(III) based on chelation-induced fluorescence enhancement and its application in live cells imaging. Inorganica Chimica Acta, 2020, 511, 119805.  | 2.4 | 23        |
| 12 | Cocrystals/salt of 1-naphthaleneacetic acid and utilizing Hirshfeld surface calculations for acid-responsive aminopyrimidine synthons. CrystEngComm, 2020, 22, 2978-2989.   | 2.6 | 27        |
| 13 | Facile Synthesis of Large Wrinkled Gold Nanoparticles Using Anthracene-Terminated Tripodal Amine Ligand and their Catalytic Efficiency. European Journal of Inorganic Chemistry, 2020, 2020, 4516-4522.                                       | 2.0 | 0         |
| 14 | Et <sub>3</sub> N-Prompted Efficient Synthesis of Anthracenyl Pyrazolines and Their Cytotoxicity Evaluation against Cancer Cell Lines. Journal of Heterocyclic Chemistry, 2019, 56, 2469-2478.  | 2.6 | 1         |
| 15 | 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         |
| 16 | Crystal structure and Hirshfeld surface analysis of <i>rac</i> -2-[2-(4-chlorophenyl)-3,4-dihydro-2H-1-benzopyran-4-ylidene]hydrazine-1-carbothioamide. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 707-710. | 0.5 | 1         |
| 17 | Aromatic sulfonium polyoxomolybdates: tuning the photochromic properties through substitutions on the counter ion moiety. CrystEngComm, 2018, 20, 2733-2740.  | 2.6 | 11        |
| 18 | Cocrystals of indole-3-acetic acid and indole-3-butyric acid: Synthesis, structural characterization and Hirshfeld surface analysis. Journal of Molecular Structure, 2018, 1166, 202-213.   | 3.6 | 15        |

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|----|--|-----|-----------|
| 19 | Enhanced mechanical properties of the high-resolution EUVL patterns of hybrid photoresists containing hexafluoroantimonate. <i>Microelectronic Engineering</i> , 2018, 194, 100-108.   | 2.4 | 4         |
| 20 | Ferrocene Bearing Non-ionic Poly-aryl Tosylates: Synthesis, Characterization and Electron Beam Lithography Applications. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2018, 31, 669-678.        | 0.3 | 2         |
| 21 | 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        |
| 22 | Evaluation of high-resolution and sensitivity of n-CAR hybrid resist for sub-16nm or below technology node. , 2018, , .  |     | 2         |
| 23 | ESIPT-Induced Carbazole-Based AIEE Material for Nanomolar Detection of Cu <sup>2+</sup> and CN <sup>-</sup> Ions: A Molecular Keypad Security Device. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2457-2463.          | 2.0 | 17        |
| 24 | 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        |
| 25 | 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        |
| 26 | 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        |
| 27 | New non-chemically amplified molecular resist design with switchable sensitivity for multi-lithography applications and nanopatterning. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 125010.                      | 2.6 | 4         |
| 28 | 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        |
| 29 | A chemosensor for micro- to nano-molar detection of Ag <sup>+</sup> and Hg <sup>2+</sup> ions in pure aqueous media and its applications in cell imaging. <i>Dalton Transactions</i> , 2017, 46, 14201-14209.                          | 3.3 | 54        |
| 30 | 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        |
| 31 | 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        |
| 32 | Understanding of Twisted Intramolecular Charge Transfer and Solid-State Emission Behavior of Benzimidazole Derivatives. <i>ChemistrySelect</i> , 2017, 2, 10517-10523.   | 1.5 | 4         |
| 33 | Vanadium Cluster-Based Inorganic-Organic Covalent Hybrids: Synthesis, Structure and In Vitro Antioxidant Properties. <i>ChemistrySelect</i> , 2017, 2, 11235-11239.  | 1.5 | 5         |
| 34 | 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        |
| 35 | Ion mediated charge carrier transport in a novel radiation sensitive polyoxometalate-polymer hybrid. <i>RSC Advances</i> , 2016, 6, 44838-44842.   | 3.6 | 2         |
| 36 | Al <sup>3+</sup> -Phenanthroline Xerogel for Dual Application: Catalyst for Knoevenagel Condensation and Fluorescent Chemosensor for Azo Dyes. <i>ChemistrySelect</i> , 2016, 1, 3371-3376.  | 1.5 | 5         |

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|----|---|-----|-----------|
| 37 | 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. RSC Advances, 2016, 6, 112728-112736.  | 3.6 | 12        |
| 38 | Multifunctional Zn(II) Complexes: Photophysical Properties and Catalytic Transesterification toward Biodiesel Synthesis. Inorganic Chemistry, 2016, 55, 7492-7500.  | 4.0 | 19        |
| 39 | Recent advances in non-chemically amplified photoresists for next generation IC technology. RSC Advances, 2016, 6, 74462-74481.   | 3.6 | 32        |
| 40 | Patterning highly ordered arrays of complex nanofeatures through EUV directed polarity switching of non chemically amplified photoresist. Scientific Reports, 2016, 6, 22664.   | 3.3 | 9         |
| 41 | Benzimidazole Based "Turn on"™ Fluorescent Chemodosimeter for Zinc Ions in Mixed Aqueous Medium. Journal of Fluorescence, 2016, 26, 1439-1445.  | 2.5 | 8         |
| 42 | 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> . CrystEngComm, 2016, 18, 4272-4276. | 2.6 | 10        |
| 43 | Nickel-sodium pyrene tetrasulfonic acid based co-ordination polymer as fluorescent template for recognition of azo dyes. Sensors and Actuators B: Chemical, 2016, 225, 586-592.   | 7.8 | 10        |
| 44 | 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. New Journal of Chemistry, 2016, 40, 1269-1277.  | 2.8 | 20        |
| 45 | A Tris(hydroxymethyl)aminomethane-Rhodamine Spirolactam Derivative as Dual Channel pH and Water Sensor and Its Application to Bio Imaging. European Journal of Organic Chemistry, 2015, 2015, 4650-4657.  | 2.4 | 13        |
| 46 | Aromatic Sulfonium Polyoxomolybdates: Solid-State Photochromic Materials with Tunable Properties. Chemistry - A European Journal, 2015, 21, 18557-18562.  | 3.3 | 25        |
| 47 | A uracil nitroso amine based colorimetric sensor for the detection of Cu <sup>2+</sup> ions from aqueous environment and its practical applications. RSC Advances, 2015, 5, 21464-21470.  | 3.6 | 37        |
| 48 | New Polyoxometalates Containing Hybrid Polymers and Their Potential for Nano-Patterning. Chemistry - A European Journal, 2015, 21, 2250-2258.   | 3.3 | 32        |
| 49 | Synthesis, structure, self-assembly and genotoxicity evaluation of a series of Mn-Anderson cluster based polyoxometalate-organic hybrids. RSC Advances, 2015, 5, 59609-59615.   | 3.6 | 11        |
| 50 | 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. RSC Advances, 2015, 5, 36727-36731.  | 3.6 | 14        |
| 51 | Self-assembly of triangular polyoxometalate-organic hybrid macroions in mixed solvents. Chemical Communications, 2015, 51, 8630-8633.   | 4.1 | 20        |
| 52 | [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. Inorganic Chemistry Communication, 2015, 56, 65-68.  | 3.9 | 11        |
| 53 | Self-assembled material of palladium nanoparticles and a thiacalix[4]arene Cd( <sup>ii</sup> ) complex as an efficient catalyst for nitro-phenol reduction. New Journal of Chemistry, 2015, 39, 8130-8135.  | 2.8 | 19        |
| 54 | Ratiometric Detection of Adenosine-5-triphosphate (ATP) and Cytidine-5-triphosphate (CTP) with a Fluorescent Spider-Like Receptor in Water. European Journal of Organic Chemistry, 2015, 2015, 122-129.   | 2.4 | 21        |

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|----|--|------|-----------|
| 55 | 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        |
| 56 | Nano dispersion of 3D Cd(ii) coordination polymer: synthetic blood plasma anticoagulant. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 163.  | 6.0  | 12        |
| 57 | 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        |
| 58 | 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        |
| 59 | Imatinib intermediate as a two in one dual channel sensor for the recognition of Cu <sup>2+</sup> and I <sup>-</sup> ions in aqueous media and its practical applications. <i>Dalton Transactions</i> , 2014, 43, 13299-13306.   | 3.3  | 35        |
| 60 | 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        |
| 61 | 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        |
| 62 | 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        |
| 63 | Au microparticles mediated construction of a logic based dual channel molecular keypad lock. <i>Dalton Transactions</i> , 2013, 42, 7514.  | 3.3  | 23        |
| 64 | 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         |
| 65 | 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        |
| 66 | Exploring the Interplay Between Ligand Derivatisation and Cation Type in the Assembly of Hybrid Polyoxometalate Mn <sup>II</sup> Andersons. <i>Small</i> , 2013, 9, 2316-2324.   | 10.0 | 23        |
| 67 | Controllable Self-Assembly of Organic-Inorganic Amphiphiles Containing Dawson Polyoxometalate Clusters. <i>Chemistry - A European Journal</i> , 2012, 18, 8157-8162.   | 3.3  | 89        |
| 68 | Programmable Surface Architectures Derived from Hybrid Polyoxometalate-Based Clusters. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4446-4455.  | 3.1  | 33        |
| 69 | 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        |
| 70 | 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        |
| 71 | Cations in control: crystal engineering polyoxometalate clusters using cation directed self-assembly. <i>Dalton Transactions</i> , 2010, 39, 9443.   | 3.3  | 140       |
| 72 | The Construction of High-Nuclearity Isopolyoxoniobates with Pentagonal Building Blocks: [HNb <sub>27</sub> O <sub>76</sub> ] <sup>16-</sup> and [H <sub>10</sub> Nb <sub>31</sub> O <sub>93</sub> (CO <sub>3</sub> )] <sup>23-</sup> . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 113-116. | 13.8 | 176       |

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|----|---|------|-----------|
| 73 | 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       |
| 74 | Synthesis of Modular Inorganic-Organic-Inorganic-Polyoxometalates and Their Assembly into Vesicles. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8309-8313.   | 13.8 | 162       |
| 75 | Chiral supramolecular metal-organic architectures from dinuclear copper complexes. <i>Polyhedron</i> , 2009, 28, 630-636.   | 2.2  | 33        |
| 76 | 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       |
| 77 | Supramolecular Metal Oxides: Programmed Hierarchical Assembly of a Protein-Sized 21 kDa [(C <sub>16</sub> H <sub>36</sub> N) <sub>19</sub> ]{H <sub>2</sub> NC(CH <sub>2</sub> ) <sub>3</sub> P <sub>2</sub> W <sub>18</sub> O <sub>52</sub> } <sub>2</sub> Polyoxometalate Assembly. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4388-4391. | 13.8 | 168       |
| 78 | Identification of ONO-ONO 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        |
| 79 | Bottom-Up Meets Top-Down Assembly in Nanoscale Polyoxometalate Clusters: Self-Assembly of [P <sub>4</sub> W <sub>52</sub> O <sub>178</sub> ] <sup>24-</sup> and Disassembly to [P <sub>3</sub> W <sub>39</sub> O <sub>134</sub> ] <sup>19-</sup> . <i>Journal of the American Chemical Society</i> , 2008, 130, 14946-14947.                                  | 13.7 | 61        |
| 80 | Controlled assembly and solution observation of a 2.6 nm polyoxometalate super™ tetrahedron cluster: [KFe <sub>12</sub> (OH) <sub>18</sub> (±-1,2,3-P <sub>2</sub> W <sub>15</sub> O <sub>56</sub> ) <sub>4</sub> ] <sub>29</sub> . <i>Chemical Communications</i> , 2007, , 4254.  | 4.1  | 115       |
| 81 | Supramolecular coordination chemistry. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2007, 103, 287.   | 0.8  | 11        |
| 82 | 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        |
| 83 | 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        |
| 84 | A tetra-nuclear copper(II) complex stabilizes an extended structure of a water nonamer: Synthesis and characterization of [Cu <sub>4</sub> (C <sub>54</sub> H <sub>46</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        |
| 85 | 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        |
| 86 | Nickel(II) complexes of tridentate anthracene based Schiff bases: syntheses, properties and crystal structures. <i>Journal of Coordination Chemistry</i> , 2006, 59, 671-680.   | 2.2  | 2         |
| 87 | Synthesis and characterization of a chiral dimeric copper(II) complex: Crystal structure of [Cu <sub>2</sub> (½-Cl) <sub>2</sub> (HL) <sub>2</sub> ] · H <sub>2</sub> O (H <sub>2</sub> L = S-(R)-2-[(2-hydroxy-1-phenyl-ethylimino)-methyl]-phenol). <i>Journal of Chemical Sciences</i> , 2005, 117, 133-137.   | 1.5  | 20        |
| 88 | Synthesis, structural characterization and properties of an optically active mononuclear Mn(IV) complex. <i>Polyhedron</i> , 2005, 24, 1410-1416.   | 2.2  | 25        |
| 89 | A Chiral Copper Complex Forms Supramolecular Homochiral Helices via O-H...Cl-Cu Interactions. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 3405-3408.   | 2.0  | 20        |
| 90 | 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        |

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| 91 | 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-( $\pi$ )-2-[(2-hydroxy-1-phenylethylimino)methyl]phenol}. <i>New Journal of Chemistry</i> , 2004, 28, 735-739. | 2.8 | 30        |
| 92 | 2,2'-(Arylene)divinylene)bis-8-hydroxyquinolines exhibiting aromatic $\pi$ - $\pi$ stacking interactions as solution-processable p-type organic semiconductors for high-performance organic field effect transistors. <i>Materials Advances</i> , 0, , .                                   | 5.4 | 8         |
| 93 | 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. <i>Crystal Growth and Design</i> , 0, , .  | 3.0 | 4         |