

# Alexander M Kirillov

## List of Publications by Citations

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229  
papers

8,237  
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61  
h-index

80  
g-index

241  
ext. papers

9,269  
ext. citations

4.8  
avg, IF

6.39  
L-index

#	Paper	IF	Citations
229	Multinuclear copper triethanolamine complexes as selective catalysts for the peroxidative oxidation of alkanes under mild conditions. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 4345-9	16.4	229
228	Multifunctional Ln-MOF Luminescent Probe for Efficient Sensing of Fe, Ce, and Acetone. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23976-23986	9.5	225
227	Supramolecular assemblies of trinuclear triangular copper(II) secondary building units through hydrogen bonds. Generation of different metal-organic frameworks, valuable catalysts for peroxidative oxidation of alkanes. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 221-30	5.1	179
226	Multicopper complexes and coordination polymers for mild oxidative functionalization of alkanes. <i>Coordination Chemistry Reviews</i> , <b>2012</b> , 256, 2741-2759	23.2	175
225	A ratiometric fluorescent nanoprobe based on terbium functionalized carbon dots for highly sensitive detection of an anthrax biomarker. <i>Chemical Communications</i> , <b>2015</b> , 51, 5036-9	5.8	160
224	Mild Peroxidative Oxidation of Cyclohexane Catalyzed by Mono-, Di-, Tri-, Tetra- and Polynuclear Copper Triethanolamine Complexes. <i>Advanced Synthesis and Catalysis</i> , <b>2006</b> , 348, 159-174	5.6	153
223	Hexamethylenetetramine: An old new building block for design of coordination polymers. <i>Coordination Chemistry Reviews</i> , <b>2011</b> , 255, 1603-1622	23.2	135
222	Pyrazinecarboxylic acid and analogs: Highly efficient co-catalysts in the metal-complex-catalyzed oxidation of organic compounds. <i>Coordination Chemistry Reviews</i> , <b>2013</b> , 257, 732-754	23.2	124
221	Remarkably fast oxidation of alkanes by hydrogen peroxide catalyzed by a tetracopper(II) triethanolamine complex: Promoting effects of acid co-catalysts and water, kinetic and mechanistic features. <i>Journal of Catalysis</i> , <b>2009</b> , 268, 26-38	7.3	124
220	An Aqua-Soluble Copper(II) Sodium Two-Dimensional Coordination Polymer with Intercalated Infinite Chains of Decameric Water Clusters. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 2200-2203	3.5	114
219	Self-assembled copper(II) coordination polymers derived from aminopolyalcohols and benzenepolycarboxylates: structural and magnetic properties. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 162-75	5.1	109
218	An unprecedented heterotrimetallic Fe/Cu/Co core for mild and highly efficient catalytic oxidation of cycloalkanes by hydrogen peroxide. <i>Chemical Communications</i> , <b>2006</b> , 4605-7	5.8	101
217	Mono-, di- and polynuclear copper(II) compounds derived from N-butyl-diethanolamine: structural features, magnetism and catalytic activity for the mild peroxidative oxidation of cyclohexane. <i>Dalton Transactions</i> , <b>2009</b> , 2109-20	4.3	100
216	Cobalt(II) Coordination Polymers Assembled from Unexplored Pyridine-Carboxylic Acids: Structural Diversity and Catalytic Oxidation of Alcohols. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 5875-5885	5.1	95
215	An Asymmetric Supercapacitor Based on a Non-Calcined 3D Pillared Cobalt(II) Metal-Organic Framework with Long Cyclic Stability. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 16100-16111	5.1	90
214	An Efficient Blue-Emissive Metal-Organic Framework (MOF) for Lanthanide-Encapsulated Multicolor and Stimuli-Responsive Luminescence. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 6362-6370	5.1	89
213	Single-Pot Ethane Carboxylation Catalyzed by New Oxorhenium(V) Complexes with N,O Ligands. <i>Advanced Synthesis and Catalysis</i> , <b>2005</b> , 347, 1435-1446	5.6	89

212	Copper(II) coordination polymers derived from triethanolamine and pyromellitic acid for bioinspired mild peroxidative oxidation of cyclohexane. <i>Journal of Inorganic Biochemistry</i> , <b>2008</b> , 102, 1190-4	4.2	88
211	Aliphatic Dicarboxylate Directed Assembly of Silver(I) 1,3,5-Triaza-7-phosphaadamantane Coordination Networks: Topological Versatility and Antimicrobial Activity. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 5408-5417	3.5	87
210	3D hydrogen bonded heteronuclear Cu(I), Ni(II), and Zn(II) aqua complexes derived from dipicolinic acid. <i>Inorganica Chimica Acta</i> , <b>2007</b> , 360, 506-512	2.7	87
209	A new Ce-doped MgAl-LDH@Au nanocatalyst for highly efficient reductive degradation of organic contaminants. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6716-6724	13	86
208	Silver(I) 1,3,5-Triaza-7-phosphaadamantane Coordination Polymers Driven by Substituted Glutarate and Malonate Building Blocks: Self-Assembly Synthesis, Structural Features, and Antimicrobial Properties. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 5886-94	5.1	86
207	Self-Assembled Two-Dimensional Water-Soluble Dipicolinate Cu/Na Coordination Polymer: Structural Features and Catalytic Activity for the Mild Peroxidative Oxidation of Cycloalkanes in Acid-Free Medium. <i>European Journal of Inorganic Chemistry</i> , <b>2008</b> , 2008, 3423-3427	2.3	86
206	New silver BioMOFs driven by 1,3,5-triaza-7-phosphaadamantane-7-sulfide (PTAS): synthesis, topological analysis and antimicrobial activity. <i>CrystEngComm</i> , <b>2013</b> , 15, 8060	3.3	82
205	Alkanes to carboxylic acids in aqueous medium: metal-free and metal-promoted highly efficient and mild conversions. <i>Chemical Communications</i> , <b>2009</b> , 2353-5	5.8	82
204	Mild homogeneous oxidation of alkanes and alcohols including glycerol with tert-butyl hydroperoxide catalyzed by a tetracopper(II) complex. <i>Journal of Catalysis</i> , <b>2010</b> , 272, 9-17	7.3	82
203	Bioactive Silver-Organic Networks Assembled from 1,3,5-Triaza-7-phosphaadamantane and Flexible Cyclohexanecarboxylate Blocks. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 1486-96	5.1	81
202	Hydrothermal assembly, structures, topologies, luminescence, and magnetism of a novel series of coordination polymers driven by a trifunctional nicotinic acid building block. <i>Dalton Transactions</i> , <b>2017</b> , 46, 10908-10925	4.3	81
201	Group 5 $\pi$ transition metal oxides as efficient catalysts for oxidative functionalization of alkanes under mild conditions. <i>Journal of Catalysis</i> , <b>2007</b> , 248, 130-136	7.3	81
200	A Highly Stable Nanotubular MOF Rotator for Selective Adsorption of Benzene and Separation of Xylene Isomers. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 10524-6	5.1	80
199	Mild aerobic oxidation of benzyl alcohols to benzaldehydes in water catalyzed by aqua-soluble multicopper(II) triethanolamine compounds. <i>Journal of Molecular Catalysis A</i> , <b>2009</b> , 305, 178-182		80
198	Structurally Distinct Metal-Organic and H-Bonded Networks Derived from 5-(6-Carboxypyridin-3-yl)isophthalic Acid: Coordination and Template Effect of 4,4'-Bipyridine. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 4658-4670	3.5	78
197	Topologically Unique 2D Heterometallic Cu(I)/Mg Coordination Polymer: Synthesis, Structural Features, and Catalytic Use in Alkane Hydrocarboxylation. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 1069-1074	2.5	76
196	A novel 2D coordination network built from hexacopper(I)-iodide clusters and cage-like aminophosphine blocks for reversible turn-on sensing of aniline. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1670-1678	7.1	74
195	Copper(II) Coordination Polymers Self-Assembled from Aminoalcohols and Pyromellitic Acid: Highly Active Precatalysts for the Mild Water-Promoted Oxidation of Alkanes. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 125-35	5.1	73

194	Multifunctional Aromatic Carboxylic Acids as Versatile Building Blocks for Hydrothermal Design of Coordination Polymers. <i>Crystals</i> , <b>2018</b> , 8, 83	2.3	73
193	A series of mixed-ligand 2D and 3D coordination polymers assembled from a novel multifunctional pyridine-tricarboxylate building block: hydrothermal syntheses, structural and topological diversity, and magnetic and luminescent properties. <i>RSC Advances</i> , <b>2015</b> , 5, 78889-78901	3.7	72
192	Covalent Construction of Sustainable Hybrid UiO-66-NH <sub>2</sub> @Tb-CP Material for Selective Removal of Dyes and Detection of Metal Ions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3203-3212	8.3	72
191	Heterometallic Coordination Polymers Assembled from Trigonal Trinuclear Fe <sub>2</sub> Ni-Pivalate Blocks and Polypyridine Spacers: Topological Diversity, Sorption, and Catalytic Properties. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 5169-81	5.1	71
190	2D lanthanide MOFs driven by a rigid 3,5-bis(3-carboxy-phenyl)pyridine building block: solvothermal syntheses, structural features, and photoluminescence and sensing properties. <i>CrystEngComm</i> , <b>2016</b> , 18, 6425-6436	3.3	71
189	New water-soluble polypyridine silver(I) derivatives of 1,3,5-triaza-7-phosphaadamantane (PTA) with significant antimicrobial and antiproliferative activities. <i>Dalton Transactions</i> , <b>2013</b> , 42, 6572-81	4.3	70
188	Topologically unique heterometallic Cu(II)/Li coordination polymers self-assembled from N,N-bis(2-hydroxyethyl)-2-aminoethanesulfonic acid biobuffer: versatile catalyst precursors for mild hydrocarboxylation of alkanes to carboxylic acids. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 5224-34	5.1	70
187	Self-assembled 3D heterometallic Cu(II)/Fe(II) coordination polymers with octahedral net skeletons: structural features, molecular magnetism, thermal and oxidation catalytic properties. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 11096-105	5.1	70
186	New Tetracopper(II) Cubane Cores Driven by a Diamino Alcohol: Self-assembly Synthesis, Structural and Topological Features, and Magnetic and Catalytic Oxidation Properties. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 5204-12	5.1	69
185	Self-assembly synthesis, structural features, and photophysical properties of dilanthanide complexes derived from a novel amide type ligand: energy transfer from Tb(III) to Eu(III) in a heterodinuclear derivative. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 935-42	5.1	69
184	New tricopper(II) cores self-assembled from aminoalcohol biobuffers and homophthalic acid: synthesis, structural and topological features, magnetic properties and mild catalytic oxidation of cyclic and linear C <sub>5</sub> -C <sub>8</sub> alkanes. <i>Inorganic Chemistry Frontiers</i> , <b>2015</b> , 2, 525-537	6.8	68
183	Bringing an "old" biological buffer to coordination chemistry: new 1D and 3D coordination polymers with [Cu <sub>4</sub> (Hbes) <sub>4</sub> ] cores for mild hydrocarboxylation of alkanes. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 6390-2	5.1	68
182	Identification of Hexameric Water and Hybrid Water-Chloride Clusters Intercalated in the Crystal Hosts of (Imidoamidine)nickel(II) Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2007</b> , 2007, 4621-4627	2.3	67
181	Alkali metal directed assembly of heterometallic V(v)/M (M = Na, K, Cs) coordination polymers: structures, topological analysis, and oxidation catalytic properties. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 8601-11	5.1	66
180	1,3,5-Triaza-7-phosphaadamantane-7-oxide (PTA <sub>7</sub> O): New Diamondoid Building Block for Design of Three-Dimensional Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 2711-2716	3.5	66
179	A new series of Cd(II) metal-organic architectures driven by soft ether-bridged tricarboxylate spacers: synthesis, structural and topological versatility, and photocatalytic properties. <i>Dalton Transactions</i> , <b>2018</b> , 47, 14327-14339	4.3	65
178	Synthesis, structural versatility, luminescent and magnetic properties of a series of coordination polymers constructed from biphenyl-2,4,4'-tricarboxylate and different N-donor ligands. <i>CrystEngComm</i> , <b>2013</b> , 15, 10287	3.3	65
177	Mild oxidative functionalization of alkanes and alcohols catalyzed by new mono- and dicopper(II) aminopolyalcoholates. <i>Journal of Molecular Catalysis A</i> , <b>2011</b> , 350, 26-34		65

176	Copper-organic frameworks assembled from in situ generated 5-(4-pyridyl)tetrazole building blocks: synthesis, structural features, topological analysis and catalytic oxidation of alcohols. <i>Dalton Transactions</i> , <b>2014</b> , 43, 9944-54	4.3	64
175	Multicopper(II) Pyromellitate Compounds: Self-Assembly Synthesis, Structural Topologies, and Magnetic Features. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 4100-4108	3.5	64
174	Extended lead(II) architectures engineered via tetrel bonding interactions. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 4959-4971	3.6	63
173	Self-assembled dicopper(II) diethanolamine cores for mild aerobic and peroxidative oxidation of alcohols. <i>Dalton Transactions</i> , <b>2010</b> , 39, 9879-88	4.3	63
172	Metal-Organic Architectures Assembled from Multifunctional Polycarboxylates: Hydrothermal Self-Assembly, Structures, and Catalytic Activity in Alkane Oxidation. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 2403-2412	5.1	62
171	Homogeneous Multicopper Catalysts for Oxidation and Hydrocarboxylation of Alkanes. <i>Advances in Inorganic Chemistry</i> , <b>2013</b> , 1-31	2.1	62
170	Engineering Coordination and Supramolecular Copper Organic Networks by Aqueous Medium Self-Assembly with 1,3,5-Triaza-7-phosphaadamantane (PTA). <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 3006-3010	3.5	62
169	Introducing 2-(2-carboxyphenoxy)terephthalic acid as a new versatile building block for design of diverse coordination polymers: synthesis, structural features, luminescence sensing, and magnetism. <i>CrystEngComm</i> , <b>2017</b> , 19, 2570-2588	3.3	61
168	The First Copper Complexes Bearing the 1,3,5-Triaza-7-phosphaadamantane (PTA) Ligand. <i>European Journal of Inorganic Chemistry</i> , <b>2007</b> , 2007, 2686-2692	2.3	61
167	Cage-like copper(II) silsesquioxanes: transmetalation reactions and structural, quantum chemical, and catalytic studies. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 8758-70	4.8	59
166	Mild, single-pot hydrocarboxylation of gaseous alkanes to carboxylic acids in metal-free and copper-promoted aqueous systems. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 9485-93	4.8	59
165	3D hydrogen bonded metal-organic frameworks constructed from [M(H <sub>2</sub> O) <sub>6</sub> ][M'(dipicolinate) <sub>2</sub> ] <sub>n</sub> H <sub>2</sub> O (M/M'= Zn/Ni or Ni/Ni). Identification of intercalated acyclic (H <sub>2</sub> O) <sub>6</sub> /(H <sub>2</sub> O) <sub>10</sub> clusters. <i>Inorganica Chimica Acta</i> , <b>2008</b> , 361, 1728-1737	2.7	59
164	Tuning the Solid-State White Light Emission of Postsynthetic Lanthanide-Encapsulated Double-Layer MOFs for Three-Color Luminescent Thermometry Applications. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 4524-4533	5.1	57
163	Metal-Free and Copper-Promoted Single-Pot Hydrocarboxylation of Cycloalkanes to Carboxylic Acids in Aqueous Medium. <i>Advanced Synthesis and Catalysis</i> , <b>2009</b> , 351, 2936-2948	5.6	57
162	An Infinite Two-Dimensional Hybrid Water-Chloride Network, Self-Assembled in a Hydrophobic Terpyridine Iron(II) Matrix. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 782-785	3.5	57
161	NIR light/H <sub>2</sub> O <sub>2</sub> -triggered nanocomposites for a highly efficient and selective synergistic photodynamic and photothermal therapy against hypoxic tumor cells. <i>Chemical Communications</i> , <b>2016</b> , 52, 7939-42	5.8	55
160	Two Polymorphic Forms of a Six-Coordinate Mononuclear Cobalt(II) Complex with Easy-Plane Anisotropy: Structural Features, Theoretical Calculations, and Field-Induced Slow Relaxation of the Magnetization. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 8502-13	5.1	55
159	Heteronuclear iron(III)chromium(III) hydroxo complexes and hydroxides, and their catalytic activity towards peroxidative oxidation of alkanes. <i>Journal of Molecular Catalysis A</i> , <b>2003</b> , 206, 163-178		52

158	Unsymmetrical Ni(II)-imidoylamidine complexes derived from a novel oxime-mediated single-pot reaction of nitriles. <i>Chemistry - A European Journal</i> , <b>2007</b> , 13, 786-91	4.8	51
157	A new multicomponent CDs/Ag@MgAl-LDH nanocatalyst for highly efficient degradation of organic water pollutants. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 4515-4524	13	50
156	Preparation and Crystal Structures of Benzoylhydrazido- and-diazenidorhenium Complexes with N,O-Ligands and Their Catalytic Activity Towards Peroxidative Oxidation of Cycloalkanes. <i>European Journal of Inorganic Chemistry</i> , <b>2005</b> , 2005, 2071-2080	2.3	47
155	Heterometallic Copper(II)Potassium 3D Coordination Polymers Driven by Multifunctionalized Azo Derivatives of $\beta$ -Diketones. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 4247-4252	3.5	44
154	Unprecedented Metal-Free C(sp <sup>3</sup> )–C(sp <sup>3</sup> ) Bond Cleavage: Switching from N-Alkyl- to N-Methyl-1,3,5-triaza-7-phosphaadamantane. <i>Organometallics</i> , <b>2009</b> , 28, 1683-1687	3.8	42
153	Simultaneous Presence of Open Metal Sites and Amine Groups on a 3D Dy(III)-Metal-Organic Framework Catalyst for Mild and Solvent-Free Conversion of CO to Cyclic Carbonates. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 2056-2067	5.1	41
152	Bringing 5-(3,4-dicarboxylphenyl)picolinic acid to crystal engineering research: hydrothermal assembly, structural features, and photocatalytic activity of Mn, Ni, Cu, and Zn coordination polymers. <i>CrystEngComm</i> , <b>2018</b> , 20, 906-916	3.3	40
151	Extending the coordination chemistry of 1,3,5-triaza-7-phosphaadamantane (PTA) to cobalt centers: first examples of co-PTA complexes and of a metal complex with the PTA oxide ligand. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 2922-4	5.1	40
150	Topological Diversity of Supramolecular Networks Constructed from Copper(II) Aminoalcohol Blocks and 2,6-Naphthalenedicarboxylate Linkers: Self-Assembly Synthesis, Structural Features, and Magnetic Properties. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 3398-3407	3.5	38
149	Metal-organic and supramolecular lead(II) networks assembled from isomeric nicotinoylhydrazone blocks: the effects of ligand geometry and counter-ion on topology and supramolecular assembly. <i>CrystEngComm</i> , <b>2016</b> , 18, 5375-5385	3.3	38
148	Hybrid Metal-Organic-Framework/Inorganic Nanocatalyst toward Highly Efficient Discoloration of Organic Dyes in Aqueous Medium. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 13270-13278	5.1	37
147	A paper-based lanthanide smart device for acid-base vapour detection, anti-counterfeiting and logic operations. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 1014-1020	6.8	36
146	Self-Assembled Upconversion Nanoparticle Clusters for NIR-controlled Drug Release and Synergistic Therapy after Conjugation with Gold Nanoparticles. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 5295-5304	5.1	35
145	New FeII and CuII Complexes Bearing Azathia Macrocycles [Catalyst Precursors for Mild Peroxidative Oxidation of Cyclohexane and 1-Phenylethanol. <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, n/a-n/a	2.3	35
144	Discrete 0D and polymeric 2D and 3D derivatives assembled from [(CuL)2Zn]2+ and dicyanamide blocks (H2L = salen type Schiff bases): Genuine supramolecular isomers with distinct topologies. <i>CrystEngComm</i> , <b>2014</b> , 16, 3029	3.3	34
143	Multinuclear Copper Triethanolamine Complexes as Selective Catalysts for the Peroxidative Oxidation of Alkanes under Mild Conditions. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 4419-4423	3.6	33
142	Computational study on the NHC-catalyzed synthesis of 2,3-disubstituted indoles: mechanism, key intermediate and the role of the catalyst. <i>Organic Chemistry Frontiers</i> , <b>2018</b> , 5, 1356-1365	5.2	32
141	Combining ethylenediamine and ionic liquid functionalities within SBA-15: A promising catalytic pair for tandem CuAAC reaction. <i>Applied Catalysis A: General</i> , <b>2017</b> , 548, 96-102	5.1	32

140	Disruption of Coordination Polymer Architecture in Cu <sup>2+</sup> Bis-Phosphonates and Carboxyphosphonates by Use of 2,2'-Bipyridine as Auxiliary Ligand: Structural Variability and Topological Analysis. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 4480-4489	3.5	30
139	Copper(I) Iodide Complexes Derived from N-Alkyl-1,3,5-triaza-7-phosphaadamantanes: Synthesis, Crystal Structures, Photoluminescence, and Identification of the Unprecedented {Cu <sub>3</sub> I <sub>5</sub> } <sub>2</sub> Cluster. <i>Organometallics</i> , <b>2009</b> , 28, 6425-6431	3.8	30
138	1,3,5-Triazapentadiene Nickel(II) Complexes Derived from a Ketoxime-Mediated Single-Pot Transformation of Nitriles. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 2425-2432	2.3	30
137	Bimetallic metal-organic frameworks and MOF-derived composites: Recent progress on electro- and photoelectrocatalytic applications. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 451, 214264	23.2	30
136	Third-Order Nonlinear Optical Behavior of an Amide-Tricarboxylate Zinc(II) Metal-Organic Framework with Two-Fold 3D+3D Interpenetration. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 9700-9708	5.1	30
135	Unique Mixed-Valence Cu(I)/Cu(II) Coordination Polymer with New Topology of Bitubular 1D Chains Driven by 1,3,5-Triaza-7-phosphaadamantane (PTA). <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 5852-5857	3.5	28
134	Design of Silver(I)-PTA Coordination Polymers through Controlled N,P-Coordination of 1,3,5-Triaza-7-phosphaadamantane (PTA) with Arylcarboxylates. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 5244-5253	3.5	28
133	Synthesis and crystal structures of three new lead(II) isonicotinoylhydrazone derivatives: Anion controlled nuclearity and dimensionality. <i>Inorganica Chimica Acta</i> , <b>2017</b> , 461, 192-205	2.7	26
132	Enhanced separation of potassium ions by spontaneous K <sup>+</sup> -induced self-assembly of a novel metal-organic framework and excess specific cation-π interactions. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 10649-53	16.4	26
131	Crystal engineering with 1,3,5-triaza-7-phosphaadamantane (PTA): first PTA-driven 3D metal-organic frameworks. <i>CrystEngComm</i> , <b>2011</b> , 13, 6329	3.3	26
130	Antiviral, Antibacterial, Antifungal, and Cytotoxic Silver(I) BioMOF Assembled from 1,3,5-Triaza-7-Phoshaadamantane and Pyromellitic Acid. <i>Molecules</i> , <b>2020</b> , 25,	4.8	24
129	Two-photon sensitized hollow Gd <sub>2</sub> O <sub>3</sub> :Eu(3+) nanocomposites for real-time dual-mode imaging and monitoring of anticancer drug release. <i>Chemical Communications</i> , <b>2016</b> , 52, 1447-50	5.8	24
128	A variety of metal-organic and supramolecular networks constructed from a new flexible multifunctional building block bearing picolinate and terephthalate functionalities: hydrothermal self-assembly, structural features, magnetic and luminescent properties. <i>RSC Advances</i> , <b>2015</b> , 5, 87484-87495	3.7	23
127	New lanthanide 2D coordination polymers constructed from a flexible ether-bridged tricarboxylate block: Synthesis, structures and luminescence sensing. <i>Inorganica Chimica Acta</i> , <b>2018</b> , 469, 98-104	2.7	23
126	Unusual shift of a nitro group in a phenylhydrazone-diketone. <i>Dalton Transactions</i> , <b>2011</b> , 40, 12472-8	4.3	23
125	Polar protic solvent-trapping polymorphism of the HgII-hydrazone coordination polymer: experimental and theoretical findings. <i>CrystEngComm</i> , <b>2017</b> , 19, 3017-3025	3.3	22
124	Effect of Substituent on the Mechanism and Chemoselectivity of the Gold(I)-Catalyzed Propargyl Ester Tandem Cyclization. <i>Organometallics</i> , <b>2017</b> , 36, 1164-1172	3.8	22
123	Nickel(II) complexes self-assembled from hexamethylenetetramine and isomeric nitrobenzoates: Structural diversity and supramolecular features. <i>Polyhedron</i> , <b>2014</b> , 79, 66-71	2.7	22

122	Mild homogeneous oxidation and hydrocarboxylation of cycloalkanes catalyzed by novel dicopper(II) aminoalcohol-driven cores. <i>Journal of Molecular Catalysis A</i> , <b>2017</b> , 426, 357-367		22
121	New diamondoid-like [Cu <sub>3</sub> B(ED) <sub>6</sub> ] core self-assembled from Bis-Tris biobuffer for mild hydrocarboxylation of alkanes to carboxylic acids. <i>Dalton Transactions</i> , <b>2011</b> , 40, 6378-81	4.3	22
120	Silver(I) Coordination Polymers Immobilized into Biopolymer Films for Antimicrobial Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 12836-12844	9.5	22
119	Instantaneous Sonophotocatalytic Degradation of Tetracycline over NU-1000@ZnInS Core-Shell Nanorods as a Robust and Eco-friendly Catalyst. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 9660-9672	5.1	22
118	Three-component 1D and 2D metal phosphonates: structural variability, topological analysis and catalytic hydrocarboxylation of alkanes. <i>RSC Advances</i> , <b>2017</b> , 7, 17788-17799	3.7	20
117	A new series of Co, Ni, Zn, and Cd metal-organic architectures driven by an unsymmetrical biphenyl-tricarboxylic acid: hydrothermal assembly, structural features and properties. <i>Dalton Transactions</i> , <b>2018</b> , 47, 7431-7444	4.3	20
116	Two mixed-ligand cadmium(II) compounds bearing 5-nitrosopyrimidine and N-donor aromatic blocks: self-assembly generation, structural and topological features, DFT studies, and Hirshfeld surface analysis. <i>CrystEngComm</i> , <b>2016</b> , 18, 5647-5657	3.3	20
115	Unprecedented Mixed-Valence Cu(I)/Cu(II) Complex Derived from N-Methyl-1,3,5-triaza-7-phosphaadamantane: Synthesis, Structural Features, and Magnetic Properties. <i>Organometallics</i> , <b>2012</b> , 31, 7921-7925	3.8	20
114	Mild oxidative C-H functionalization of alkanes and alcohols using a magnetic core-shell Fe <sub>3</sub> O <sub>4</sub> @mSiO <sub>2</sub> @Cu <sub>4</sub> nanocatalyst. <i>Journal of Molecular Catalysis A</i> , <b>2017</b> , 426, 343-349		19
113	New lanthanide(III) coordination polymers: synthesis, structural features, and catalytic activity in CO fixation. <i>Dalton Transactions</i> , <b>2017</b> , 46, 16426-16431	4.3	19
112	Inorganic-organic hybrid materials based on PbBr <sub>2</sub> and pyridine-hydrazone blocks: structural and theoretical study. <i>RSC Advances</i> , <b>2016</b> , 6, 60385-60393	3.7	19
111	Structural Systematics and Topological Analysis of Coordination Polymers with Divalent Metals and a Glycine-Derived Tripodal Phosphonocarboxylate. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 5234-5243	3.5	19
110	Mild, single-pot hydrocarboxylation of linear C <sub>5</sub> -C <sub>9</sub> alkanes into branched monocarboxylic C <sub>6</sub> -C <sub>10</sub> acids in copper-catalyzed aqueous systems. <i>Applied Catalysis A: General</i> , <b>2011</b> , 401, 106-113	5.1	19
109	Versatile rare-earth oxide nanocomposites: enhanced chemo/photothermal/photodynamic anticancer therapy and multimodal imaging. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 7832-7844	7.3	18
108	Structural diversity in new coordination polymers modulated by semirigid ether-linked pyridine-phthalate building block and ancillary ligands: syntheses, structures, and luminescence properties. <i>CrystEngComm</i> , <b>2015</b> , 17, 3117-3128	3.3	17
107	Hybrid materials based on novel 2D lanthanide coordination polymers covalently bonded to amine-modified SBA-15 and MCM-41: assembly, characterization, structural features, thermal and luminescence properties. <i>Dalton Transactions</i> , <b>2016</b> , 45, 18610-18621	4.3	17
106	New aqua-soluble dicopper(II) aminoalcoholate cores for mild and water-assisted catalytic oxidation of alkanes. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 4584-4593	5.5	17
105	Assembling supramolecular networks by halogen bonding in coordination polymers driven by 5-bromonicotinic acid. <i>Journal of Solid State Chemistry</i> , <b>2014</b> , 213, 256-267	3.3	17



104	Bis(triethanolamine- $\beta$ N,O,O $\gamma$ )nickel(II) benzene-1,4-dicarboxylate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2005</b> , 61, m2746-m2748			16
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102	Three-Component Copper-Phosphonate-Auxiliary Ligand Systems: Proton Conductors and Efficient Catalysts in Mild Oxidative Functionalization of Cycloalkanes. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 10656-10666	5.1		15
101	Exploring biphenyl-2,4,4'-tricarboxylic acid as a flexible building block for the hydrothermal self-assembly of diverse metal-organic and supramolecular networks. <i>CrystEngComm</i> , <b>2016</b> , 18, 765-778	3.3		14
100	Structural Versatility of Alkali Metal Coordination Polymers Driven by Arylhydrazones of $\beta$ -Diketones. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 5076-5084	3.5		14
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92	Mild C-H functionalization of alkanes catalyzed by bioinspired copper(II) cores. <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 7706-7714	3.9		12
91	Novel double layer lanthanide metal-organic networks for sensing applications. <i>Dalton Transactions</i> , <b>2018</b> , 47, 465-474	4.3		12
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15	DFT quest for mechanism and stereoselectivity in B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> -catalyzed cyclopropanation of alkenes with aryldiazoacetates. <i>Molecular Catalysis</i> , <b>2021</b> , 516, 111980	3.3	1

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9	Coupling 6-chloro-3-methyluracil with copper: structural features, theoretical analysis, and biofunctional properties. <i>Dalton Transactions</i> , <b>2021</b> , 50, 13533-13542		4.3	1
8	Butterfly-like Heteronuclear 3d <sup>4f</sup> Metal Clusters: Synthesis, Structures, Magnetic Properties, and Magnetocaloric Effect. <i>Crystal Growth and Design</i> , <b>2022</b> , 22, 608-614		3.5	1
7	Coordination Polymers from 2-Chloroterephthalate Linkers: Synthesis, Structural Diversity, and Catalytic CO <sub>2</sub> Fixation. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 2876-2888		3.5	0
6	Biosketch of Professor Georgiy B. Shul'bin. <i>Journal of Molecular Catalysis A</i> , <b>2017</b> , 426, 273-274			
5	4,4'-(Pyridine-2,5-diyl)dibenzoic acid as a building block for Cd(II) and Mn(II) coordination compounds: Synthesis, structural features and properties. <i>Inorganica Chimica Acta</i> , <b>2015</b> , 435, 60-65		2.7	
4	Os(VI)O <sub>2</sub> /K Metal-Organic Frameworks: Infinite Chain, Grid, and Porous Networks. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 2703-2708		3.5	
3	Coordination complexes based on 4-aminobenzonitrile with different dimensionalities. <i>Journal of Coordination Chemistry</i> , <b>2013</b> , 66, 1602-1615		1.6	
2	Silver(I)-Tazobactam Frameworks with Improved Antimicrobial Activity.. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 815827		5	
1	Layered Inorganic-Organic 3,5-Dimethylpyrazole-4-Sulfonate Films for Protection of Copper Surfaces against Corrosion. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 5421-5439		3.5	