

# Andrew Kentaro Inge

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

2,858  
citations

236925

25  
h-index

182427

51  
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92  
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92  
docs citations

92  
times ranked

3910  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simple Approach to Macrocyclic Carbonates with Fast Polymerization Rates and Their Polymer-to-Monomer Regeneration. <i>Macromolecules</i> , 2022, 55, 608-614.	4.8	28
2	Synthesis, crystal structure, and topology of a polycatenated bismuth coordination polymer. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2022, 77, 231-236.	0.7	2
3	Solvent Dependency in Stereoselective $\gamma$ -Lactam Formation of Chiral $\alpha$ -Fluoromalonate Derivatives: Stereodivergent Synthesis of Heterocycles with Fluorine Containing Stereocenters Adjacent to Tertiary Stereocenters. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 958-965.	4.3	2
4	Sacrificial W Facilitates Self-Reconstruction with Abundant Active Sites for Water Oxidation. <i>Small</i> , 2022, 18, e2107249.	10.0	17
5	A heteroepitaxially grown two-dimensional metal-organic framework and its derivative for the electrocatalytic oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10408-10416.	10.3	13
6	Microscopic Insights into Cation-Coupled Electron Hopping Transport in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2022, 144, 5910-5920.	13.7	18
7	Structure of the active pharmaceutical ingredient bismuth subsalicylate. <i>Nature Communications</i> , 2022, 13, 1984.	12.8	22
8	Chiral Lanthanum Metal-Organic Framework with Gated $\text{CO}_2$ Sorption and Concerted Framework Flexibility. <i>Journal of the American Chemical Society</i> , 2022, 144, 8725-8733.	13.7	18
9	Synthesis of $\alpha, \beta$ -Chiral Trifluoromethylated Amines through the Stereospecific Isomerization of $\alpha$ -Chiral Allylic Amines. <i>Organic Letters</i> , 2022, 24, 3867-3871.	4.6	4
10	Switching O-O bond formation mechanism between WNA and I2M pathways by modifying the Ru-bda backbone ligands of water-oxidation catalysts. <i>Journal of Energy Chemistry</i> , 2021, 54, 815-821.	12.9	16
11	3D electron diffraction as an important technique for structure elucidation of metal-organic frameworks and covalent organic frameworks. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213583.	18.8	86
12	Surface and bulk reconstruction of CoW sulfides during pH-universal electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11359-11369.	10.3	21
13	Metal-Dependent and Selective Crystallization of CAU-10 and MIL-53 Frameworks through Linker Nitration. <i>Chemistry - A European Journal</i> , 2021, 27, 7696-7703.	3.3	0
14	A Tunable Multivariate Metal-Organic Framework as a Platform for Designing Photocatalysts. <i>Journal of the American Chemical Society</i> , 2021, 143, 6333-6338.	13.7	69
15	Isorecticular Chemistry of Group 13 Metal-Organic Framework Compounds Based on V-Shaped Linker Molecules: Exceptions to the Rule?. <i>Inorganic Chemistry</i> , 2021, 60, 8861-8869.	4.0	4
16	Toward Sustainable Li-Ion Battery Recycling: Green Metal-Organic Framework as a Molecular Sieve for the Selective Separation of Cobalt and Nickel. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9770-9778.	6.7	22
17	Stable CAAC-based Ruthenium Complexes for Dynamic Olefin Metathesis Under Mild Conditions. <i>ChemCatChem</i> , 2021, 13, 4841.	3.7	4
18	Exploring the influence of atomic level structure, porosity, and stability of bismuth( $\text{III}$ ) coordination polymers on electrocatalytic $\text{CO}_2$ reduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26298-26310.	10.3	14

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19	A Comparison of Structure Determination of Small Organic Molecules by 3D Electron Diffraction at Cryogenic and Room Temperature. <i>Symmetry</i> , 2021, 13, 2131.	2.2	5
20	Highly Diastereoselective Palladium-Catalyzed Oxidative Cascade Carbonylative Carbocyclization of Enallenols. <i>Organic Letters</i> , 2020, 22, 417-421.	4.6	8
21	Amorphous WO <sub>3</sub> induced lattice distortion for a low-cost and high-efficient electrocatalyst for overall water splitting in acid. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1712-1722.	4.9	14
22	Breathing Metal-Organic Framework Based on Flexible Inorganic Building Units. <i>Crystal Growth and Design</i> , 2020, 20, 320-329.	3.0	31
23	Molecular Functionalization of NiO Nanocatalyst for Enhanced Water Oxidation by Electronic Structure Engineering. <i>ChemSusChem</i> , 2020, 13, 5901-5909.	6.8	14
24	A Tetratopic Phosphonic Acid for the Synthesis of Permanently Porous MOFs: Reactor Size-Dependent Product Formation and Crystal Structure Elucidation via Three-Dimensional Electron Diffraction. <i>Inorganic Chemistry</i> , 2020, 59, 13343-13352.	4.0	11
25	A Robust and Biocompatible Bismuth Ellagate MOF Synthesized Under Green Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2020, 142, 16795-16804.	13.7	115
26	Observation of three different linker conformers in a scandium ferrocenedicarboxylate coordination polymer. <i>CrystEngComm</i> , 2020, 22, 5569-5572.	2.6	3
27	A Scandium MOF with an Unprecedented Inorganic Building Unit, Delimiting the Micropore Windows. <i>Inorganic Chemistry</i> , 2020, 59, 8995-9004.	4.0	11
28	An Expandable Hydrogen-Bonded Organic Framework Characterized by Three-Dimensional Electron Diffraction. <i>Journal of the American Chemical Society</i> , 2020, 142, 12743-12750.	13.7	70
29	Polymorphous Indium Metal-Organic Frameworks Based on a Ferrocene Linker: Redox Activity, Porosity, and Structural Diversity. <i>Inorganic Chemistry</i> , 2020, 59, 9969-9978.	4.0	24
30	Silver-Triggered Activity of a Heterogeneous Palladium Catalyst in Oxidative Carbonylation Reactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10391-10395.	13.8	25
31	Silver-Triggered Activity of a Heterogeneous Palladium Catalyst in Oxidative Carbonylation Reactions. <i>Angewandte Chemie</i> , 2020, 132, 10477-10481.	2.0	10
32	New Scandium-containing Coordination Polymers with Linear Linker Molecules: Crystal Structures and Luminescence Properties. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2737-2743.	2.0	5
33	Metal-Organic Frameworks with Hexakis(4-carboxyphenyl)benzene: Extensions to Reticular Chemistry and Introducing Foldable Nets. <i>Journal of the American Chemical Society</i> , 2020, 142, 9471-9481.	13.7	26
34	Water-based Synthesis and Properties of a Scandium 1,4-Naphthalenedicarboxylate. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1373-1379.	1.2	5
35	Permanent porosity and role of sulfonate groups in coordination networks constructed from a new polyfunctional phosphonato-sulfonate linker molecule. <i>Dalton Transactions</i> , 2020, 49, 2724-2733.	3.3	7
36	Hexahydroxytriphenylene for the synthesis of group 13 MOFs - a new inorganic building unit in a $\bar{1}2$ -cristobalite type structure. <i>Dalton Transactions</i> , 2020, 49, 3088-3092.	3.3	14

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37	A metal-organic framework for efficient water-based ultra-low-temperature-driven cooling. <i>Nature Communications</i> , 2019, 10, 3025.	12.8	145
38	Catalytic Enantioselective Synthesis of Bicyclic Lactam <i>N,S</i> -Acetals in One Pot by Cascade Transformations. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 4649-4657.	2.4	3
39	Five New Coordination Polymers with a Bifunctional Phosphonate-Sulfonate Linker Molecule. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 732-739.	1.2	3
40	Metal-Organic Frameworks as Catalysts for Organic Synthesis: A Critical Perspective. <i>Journal of the American Chemical Society</i> , 2019, 141, 7223-7234.	13.7	484
41	In situ XAS study of the local structure and oxidation state evolution of palladium in a reduced graphene oxide supported Pd(II) carbene complex during an undirected C-H acetoxylation reaction. <i>Catalysis Science and Technology</i> , 2019, 9, 2025-2031.	4.1	20
42	Versatile Heterogeneous Palladium Catalysts for Diverse Carbonylation Reactions under Atmospheric Carbon Monoxide Pressure. <i>ChemCatChem</i> , 2018, 10, 1089-1095.	3.7	10
43	A Porous Cobalt Tetrakisphosphonate Metal-Organic Framework: Accurate Structure and Guest Molecule Location Determined by Continuous-Rotation Electron Diffraction. <i>Chemistry - A European Journal</i> , 2018, 24, 17429-17433.	3.3	73
44	Multistimuli-Responsive Enaminitrile Molecular Switches Displaying H <sup>+</sup> -Induced Aggregate Emission, Metal Ion-Induced Turn-On Fluorescence, and Organogelation Properties. <i>Journal of the American Chemical Society</i> , 2018, 140, 13640-13643.	13.7	46
45	Chemodivergent and Diastereoselective Synthesis of $\beta$ -Lactones and $\beta$ -Lactams: A Heterogeneous Palladium-Catalyzed Oxidative Tandem Process. <i>Journal of the American Chemical Society</i> , 2018, 140, 14604-14608.	13.7	64
46	Lignin Based Molecular Materials - a Zinc Vanillate with a Hydrogen Bonded 4- and 8-connected Net with a New Topology. <i>Israel Journal of Chemistry</i> , 2018, 58, 1127-1130.	2.3	1
47	Solvent-Dependent Formation of Three New Bi-Metal-Organic Frameworks Using a Tetracarboxylic Acid. <i>Crystal Growth and Design</i> , 2018, 18, 4060-4067.	3.0	39
48	Synthesis, Transformation, Catalysis, and Gas Sorption Investigations on the Bismuth Metal-Organic Framework CAU-17. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 3496-3503.	2.0	57
49	Design and synthesis of dopant-free organic hole-transport materials for perovskite solar cells. <i>Chemical Communications</i> , 2018, 54, 9571-9574.	4.1	49
50	Probing the Evolution of Palladium Species in Pd@MOF Catalysts during the Heck Coupling Reaction: An Operando X-ray Absorption Spectroscopy Study. <i>Journal of the American Chemical Society</i> , 2018, 140, 8206-8217.	13.7	70
51	A novel bismuth-containing metal-organic framework: the first example of a flexible bismuth MOF. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e367-e367.	0.1	0
52	Synthesis and crystal structure of three new bismuth(III) arylsulfonatocarboxylates. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, 245-253.	0.8	7
53	Effect of partial linker fluorination and linker extension on structure and properties of the Al-MOF CAU-10. <i>Microporous and Mesoporous Materials</i> , 2017, 249, 128-136.	4.4	14
54	Polymorphous Al-MOFs Based on V-Shaped Linker Molecules: Synthesis, Properties, and in Situ Investigation of Their Crystallization. <i>Inorganic Chemistry</i> , 2017, 56, 5851-5862.	4.0	25

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55	Elucidation of the elusive structure and formula of the active pharmaceutical ingredient bismuth subgallate by continuous rotation electron diffraction. <i>Chemical Communications</i> , 2017, 53, 7018-7021.	4.1	86
56	A multi-purpose reaction cell for the investigation of reactions under solvothermal conditions. <i>Review of Scientific Instruments</i> , 2017, 88, 104102.	1.3	22
57	A Water Based Synthesis of Ultrathin Hydrated Vanadium Pentoxide Nanosheets for Lithium Battery Application: Free Standing Electrodes or Conventionally Casted Electrodes?. <i>Electrochimica Acta</i> , 2017, 252, 254-260.	5.2	14
58	Design and synthesis of theranostic antibiotic nanodrugs that display enhanced antibacterial activity and luminescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8464-8469.	7.1	76
59	Investigation of the effect of polar functional groups on the crystal structures of indium MOFs. <i>CrystEngComm</i> , 2017, 19, 4622-4628.	2.6	15
60	Bismuth coordination polymers: from centuries-old medicines to unprecedented topological complexity. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C843-C843.	0.1	1
61	A Germanate with a Collapsible Open-Framework. <i>Crystal Growth and Design</i> , 2016, 16, 6967-6973.	3.0	4
62	Dihydroxybenzoquinone as Linker for the Synthesis of Permanently Porous Aluminum Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2016, 55, 7425-7431.	4.0	48
63	Unprecedented Topological Complexity in a Metal-Organic Framework Constructed from Simple Building Units. <i>Journal of the American Chemical Society</i> , 2016, 138, 1970-1976.	13.7	155
64	New Al-MOFs Based on Sulfonyldibenzoate Ions: A Rare Example of Intralayer Porosity. <i>Inorganic Chemistry</i> , 2015, 54, 492-501.	4.0	43
65	SU-79: a novel germanate with 3D 10- and 11-ring channels templated by a square-planar nickel complex. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 278-283.	6.0	6
66	SU-77: An Open-Framework Germanate Containing 12 Å–10 Å–10-Ring Channels Solved by Combining Rotation Electron Diffraction and Powder X-ray Diffraction. <i>Crystal Growth and Design</i> , 2014, 14, 5072-5078.	3.0	11
67	Synthesis and Structure determination of a new interrupted zeolite PKU-14. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C1707-C1707.	0.1	1
68	Catalytic Water Oxidation by Mononuclear Ru Complexes with an Anionic Ancillary Ligand. <i>Inorganic Chemistry</i> , 2013, 52, 2505-2518.	4.0	77
69	Insights into Ru-Based Molecular Water Oxidation Catalysts: Electronic and Noncovalent-Interaction Effects on Their Catalytic Activities. <i>Inorganic Chemistry</i> , 2013, 52, 7844-7852.	4.0	136
70	Solving complex open-framework structures from X-ray powder diffraction by direct-space methods using composite building units. <i>Journal of Applied Crystallography</i> , 2013, 46, 1094-1104.	4.5	10
71	PKU-14: combining X-ray powder diffraction, NMR and IR spectroscopy. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s113-s113.	0.3	0
72	SU-66: combining X-ray powder diffraction, electron diffraction and IR spectroscopy. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, s106-s106.	0.3	0

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73	SU-75: a disordered Ge <sub>10</sub> germanate with pcu topology. Dalton Transactions, 2012, 41, 12358.	3.3	6
74	Three low-dimensional open-germanates based on the 44 net. CrystEngComm, 2012, 14, 5465.	2.6	9
75	A Stacking Faults-Containing Silicogermanate with 24-Ring Channels and Unbranched Zweier Silica Double Chains. Crystal Growth and Design, 2012, 12, 3714-3719.	3.0	9
76	SU-62: Synthesis and Structure Investigation of a Germanate with a Novel Three-Dimensional Net and Interconnected 10- and 14-Ring Channels. Crystal Growth and Design, 2012, 12, 369-375.	3.0	13
77	The Structure of a Complex Open-Framework Germanate Obtained by Combining Powder Charge-Flipping and Simulated Annealing. Crystal Growth and Design, 2012, 12, 4853-4860.	3.0	10
78	A Highly Active Bifunctional Iridium Complex with an Alcohol/Alkoxide- $\pi$ -Tethered N-Heterocyclic Carbene for Alkylation of Amines with Alcohols. Chemistry - A European Journal, 2012, 18, 14510-14519.	3.3	157
79	Investigation of the GeO <sub>2</sub> -1,6-Diaminohexane-Water-Pyridine-HF Phase Diagram Leading to the Discovery of Two Novel Layered Germanates with Extra-Large Rings. Inorganic Chemistry, 2011, 50, 201-207.	4.0	29
80	Synthesis and Characterization of Oligonuclear Ru, Co and Cu Oxidation Catalysts. European Journal of Inorganic Chemistry, 2010, 2010, 5462-5470.	2.0	25
81	Open-Framework Germanate Built from the Hexagonal Packing of Rigid Cylinders. Inorganic Chemistry, 2009, 48, 9962-9964.	4.0	25