

Christophe Volkringer

List of Publications by Year in descending order

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88
papers

5,871
citations

76326

40
h-index

74163

75
g-index

94
all docs

94
docs citations

94
times ranked

5353
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Post-synthetic modification of aluminum trimesate and copper trimesate with TiO ₂ nanoparticles for photocatalytic applications. <i>Journal of Materials Science</i> , 2022, 57, 4481-4503. | 3.7 | 12 |
| 2 | Capture of Gaseous Iodine in Isorecticular Zirconium-Based UiO-66 Metal-Organic Frameworks: Influence of Amino Functionalization, DFT Calculations, Raman and EPR Spectroscopic Investigation. <i>Chemistry - A European Journal</i> , 2022, 28, e202104437. | 3.3 | 23 |
| 3 | Extrusion-Spheronization of UiO-66 and UiO-66-NH ₂ into Robust-Shaped Solids and Their Use for Gaseous Molecular Iodine, Xenon, and Krypton Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10669-10680. | 8.0 | 18 |
| 4 | Microwave-Assisted Synthesis of Porous Composites MOF@Textile for the Protection against Chemical and Nuclear Hazards. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21497-21508. | 8.0 | 28 |
| 5 | Probing adsorption of water and DMF in UiO-66(Zr) using solid-state NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2022, 120, 101797. | 2.3 | 3 |
| 6 | Iodine Uptake by Zr/Hf-Based UiO-66 Materials: The Influence of Metal Substitution on Iodine Evolution. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29916-29933. | 8.0 | 34 |
| 7 | Cyclodextrins: a new and effective class of co-modulators for aqueous zirconium-MOF syntheses. <i>CrystEngComm</i> , 2021, 23, 2764-2772. | 2.6 | 11 |
| 8 | Stability and radioactive gaseous iodine-131 retention capacity of binderless UiO-66-NH ₂ granules under severe nuclear accidental conditions. <i>Journal of Hazardous Materials</i> , 2021, 416, 125890. | 12.4 | 33 |
| 9 | Direct conversion of uranium dioxide UO ₂ to uranium tetrafluoride UF ₄ using the fluorinated ionic liquid [Bmim][PF ₆]. <i>Dalton Transactions</i> , 2020, 49, 274-278. | 3.3 | 4 |
| 10 | Quantitative Precipitation of Uranyl or Plutonyl Nitrate with N-(1-Adamantyl)acetamide in Nitric Acid Aqueous Solution. <i>Inorganic Chemistry</i> , 2020, 59, 11459-11468. | 4.0 | 4 |
| 11 | Influence of Light and Temperature on the Extractability of Cerium(IV) as a Surrogate of Plutonium(IV) and its Effect on the Simulation of an Accidental Fire in the PUREX Process. <i>ACS Omega</i> , 2019, 4, 12896-12904. | 3.5 | 9 |
| 12 | Time-controlled synthesis of the 3D coordination polymer U(1,2,3-Hbtc) ₂ followed by the formation of molecular poly-oxo cluster {U ₁₄ } containing hemimellitate uranium(IV). <i>RSC Advances</i> , 2019, 9, 22795-22804. | 3.6 | 13 |
| 13 | Optimization of the synthesis of UiO-66(Zr) in ionic liquids. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109564. | 4.4 | 14 |
| 14 | Molecular Assemblies of a Series of Mixed Tetravalent Uranium and Trivalent Lanthanide Complexes Associated with the Dipicolinate Ligand, in Aqueous Medium. <i>Crystal Growth and Design</i> , 2018, 18, 2165-2179. | 3.0 | 9 |
| 15 | Dynamic sorption properties of Metal-Organic Frameworks for the capture of methyl iodide. <i>Microporous and Mesoporous Materials</i> , 2018, 259, 244-254. | 4.4 | 48 |
| 16 | The Surprising Stability of Cu ₃ (btc) ₂ Metal-Organic Framework under Steam Flow at High Temperature. <i>Crystal Growth and Design</i> , 2018, 18, 6681-6693. | 3.0 | 25 |
| 17 | A DFT study of RuO ₄ interactions with porous materials: metal-organic frameworks (MOFs) and zeolites. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16770-16776. | 2.8 | 22 |
| 18 | Synthesis and structural characterization of the first neptunium based metal-organic frameworks incorporating {Np ₆ O ₈ } hexanuclear clusters. <i>Chemical Communications</i> , 2018, 54, 6979-6982. | 4.1 | 48 |

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|----|---|-----|-----------|
| 19 | Formation of a new type of uranium(U^{IV}) poly-oxo cluster $\{\text{U}_{38}\}$ based on a controlled release of water <i>via</i> esterification reaction. <i>Chemical Science</i> , 2018, 9, 5021-5032. | 7.4 | 31 |
| 20 | $\{\text{Np}_{38}\}$ clusters: the missing link in the largest poly-oxo cluster series of tetravalent actinides. <i>Chemical Communications</i> , 2018, 54, 10060-10063. | 4.1 | 30 |
| 21 | NMR crystallography to probe the breathing effect of the MIL-53(Al) metal-organic framework using solid-state NMR measurements of ^{13}C - ^{27}Al distances. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017, 73, 176-183. | 0.5 | 22 |
| 22 | Synthesis of Coordination Polymers of Tetravalent Actinides (Uranium and Neptunium) with a Phthalate or Mellitate Ligand in an Aqueous Medium. <i>Inorganic Chemistry</i> , 2017, 56, 2902-2913. | 4.0 | 28 |
| 23 | Solid-State NMR Spectroscopy Proves the Presence of Penta-coordinated Sc Sites in MIL-100(Sc). <i>Chemistry - A European Journal</i> , 2017, 23, 9525-9534. | 3.3 | 19 |
| 24 | Structural studies of a series of uranyl alkylacetamides and piracetam complexes obtained in nitric acid aqueous solution. <i>Polyhedron</i> , 2017, 138, 7-12. | 2.2 | 5 |
| 25 | Capture of actinides (Th^{IV} , $[\text{UO}_2]^{2+}$) and surrogating lanthanide (Nd^{3+}) in porous metal-organic framework MIL-100(Al) from water: selectivity and imaging of embedded nanoparticles. <i>Dalton Transactions</i> , 2017, 46, 12010-12014. | 3.3 | 44 |
| 26 | Study of Xenon Mobility in the Two Forms of MIL-53(Al) Using Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19262-19268. | 3.1 | 19 |
| 27 | IRSN R&D Actions on FP Behaviour for RCS, Containment and FCVS in Severe Accident Conditions. , 2016, , . | | 1 |
| 28 | A new series of trivalent lanthanide (Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy) coordination polymers with a 1,2-cyclohexanedicarboxylate ligand: synthesis, crystal structure, luminescence and catalytic properties. <i>CrystEngComm</i> , 2016, 18, 3594-3605. | 2.6 | 35 |
| 29 | Study of the reaction mechanisms involved in the formation of zirconium oxycarbide from Metal-Organic Frameworks (MOFs) precursors. <i>Journal of Alloys and Compounds</i> , 2016, 680, 571-585. | 5.5 | 11 |
| 30 | Stability of metal-organic frameworks under gamma irradiation. <i>Chemical Communications</i> , 2016, 52, 12502-12505. | 4.1 | 67 |
| 31 | Series of Hydrated Heterometallic Uranyl-Cobalt(II) Coordination Polymers with Aromatic Polycarboxylate Ligands: Formation of $\text{U}\cdots\text{Co}$ Bonding upon Dehydration Process. <i>Inorganic Chemistry</i> , 2016, 55, 10453-10466. | 4.0 | 23 |
| 32 | Iodine sequestration by thiol-modified MIL-53(Al). <i>CrystEngComm</i> , 2016, 18, 8108-8114. | 2.6 | 54 |
| 33 | Hydrothermal Crystallization of Uranyl Coordination Polymers Involving an Imidazolium Dicarboxylate Ligand: Effect of pH on the Nuclearity of Uranyl-Centered Subunits. <i>Inorganic Chemistry</i> , 2016, 55, 8697-8705. | 4.0 | 32 |
| 34 | Synthesis and Crystal Structure Characterization of Thorium Trimesate Coordination Polymers. <i>Crystal Growth and Design</i> , 2016, 16, 1667-1678. | 3.0 | 30 |
| 35 | Ex-Situ Kinetic Investigations of the Formation of the Poly-Oxo Cluster U_{38} . <i>Chemistry - A European Journal</i> , 2015, 21, 16654-16664. | 3.3 | 24 |
| 36 | Luminescent Lanthanide Metal Organic Frameworks for cis-Selective Isoprene Polymerization Catalysis. <i>Inorganics</i> , 2015, 3, 467-481. | 2.7 | 10 |

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|----|---|------|-----------|
| 37 | Synthesis of zirconium oxycarbide powders using metal-organic framework (MOF) compounds as precursors. <i>RSC Advances</i> , 2015, 5, 51650-51661. | 3.6 | 9 |
| 38 | Crystal chemistry of aluminium carboxylates: From molecular species towards porous infinite three-dimensional networks. <i>Comptes Rendus Chimie</i> , 2015, 18, 1350-1369. | 0.5 | 56 |
| 39 | Thorium Terephthalates Coordination Polymers Synthesized in Solvothermal DMF/H ₂ O System. <i>Inorganic Chemistry</i> , 2015, 54, 2235-2242. | 4.0 | 123 |
| 40 | Solvothermal Synthesis of Tetravalent Uranium with Isophthalate or Pyromellitate Ligands. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2813-2821. | 2.0 | 10 |
| 41 | Coordination polymers of uranium(IV) terephthalates. <i>Dalton Transactions</i> , 2015, 44, 2639-2649. | 3.3 | 38 |
| 42 | The crystal chemistry of uranium carboxylates. <i>Coordination Chemistry Reviews</i> , 2014, 266-267, 69-109. | 18.8 | 336 |
| 43 | Crystal structures of tetravalent uranium fluorides obtained in the presence of hydrazine from uranyl source. <i>Journal of Fluorine Chemistry</i> , 2014, 159, 1-7. | 1.7 | 6 |
| 44 | Probing ²⁷ Al- ¹³ C proximities in metal-organic frameworks using dynamic nuclear polarization enhanced NMR spectroscopy. <i>Chemical Communications</i> , 2014, 50, 933-935. | 4.1 | 67 |
| 45 | Room temperature crystallization of trichlorodioxouranate [UO ₂ Cl ₃ (L)] species in molecular assemblies involving aliphatic dicarboxylate linkers. <i>Inorganic Chemistry Communication</i> , 2014, 44, 63-66. | 3.9 | 17 |
| 46 | Isolation of thorium benzoate polytypes with discrete ThO ₈ square antiprismatic units involved in chain-like assemblies. <i>Inorganic Chemistry Communication</i> , 2014, 39, 26-30. | 3.9 | 13 |
| 47 | Isolation of the Large {Actinide} ₃₈ Poly-oxo Cluster with Uranium. <i>Journal of the American Chemical Society</i> , 2013, 135, 15678-15681. | 13.7 | 81 |
| 48 | Capture of iodine in highly stable metal-organic frameworks: a systematic study. <i>Chemical Communications</i> , 2013, 49, 10320. | 4.1 | 249 |
| 49 | Synthesis and structural characterization of metal-organic frameworks with the mellitate linker M ₂ (OH) ₂ [C ₁₂ O ₁₂ H ₂] _n ·2H ₂ O (M = Al, Ga, In) MIL-116. <i>Solid State Sciences</i> , 2013, 26, 38-44. | 3.2 | 29 |
| 50 | Three-Dimensional MOF-Type Architectures with Tetravalent Uranium Hexanuclear Motifs (U ₆ O ₈). <i>Chemistry - A European Journal</i> , 2013, 19, 5324-5331. | 3.3 | 115 |
| 51 | Structural Observations of Heterometallic Uranyl Copper(II) Carboxylates and Their Solid-State Topotactic Transformation upon Dehydration. <i>Chemistry - A European Journal</i> , 2013, 19, 2012-2022. | 3.3 | 59 |
| 52 | Mixed Formate-Dicarboxylate Coordination Polymers with Tetravalent Uranium: Occurrence of Tetranuclear {U ₄ O ₄ } and Hexanuclear {U ₆ O ₄ (OH) ₄ } Motifs. <i>Crystal Growth and Design</i> , 2013, 13, 3225-3231. | 3.0 | 58 |
| 53 | Synthesis, Structural Characterization, and Dehydration Analysis of Uranyl Zinc Mellitate, (UO ₂)Zn(H ₂ O) ₄ (H ₂ mel) ₂ ·2H ₂ O. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2109-2114. | 2.0 | 29 |
| 54 | Uranyl-Pyromellitate Coordination Polymers: Toward Three-Dimensional Open Frameworks with Large Channel Systems. <i>Crystal Growth and Design</i> , 2012, 12, 526-535. | 3.0 | 81 |

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|----|--|------|-----------|
| 55 | Water-Free Neodymium 2,6-Naphthalenedicarboxylates Coordination Complexes and Their Application as Catalysts for Isoprene Polymerization. <i>Inorganic Chemistry</i> , 2012, 51, 483-490. | 4.0 | 35 |
| 56 | Series of Mixed Uranyl Lanthanide (Ce, Nd) Organic Coordination Polymers with Aromatic Polycarboxylates Linkers. <i>Inorganic Chemistry</i> , 2012, 51, 9610-9618. | 4.0 | 84 |
| 57 | Six-Fold Coordinated Uranyl Cations in Extended Coordination Polymers. <i>Crystal Growth and Design</i> , 2012, 12, 4641-4648. | 3.0 | 79 |
| 58 | Uranyl and/or Rare-Earth Mellitates in Extended Organic-Inorganic Networks: A Unique Case of Heterometallic Cation-Cation Interaction with UV-Vis-LnIII Bonding (Ln = Ce, Nd). <i>Journal of the American Chemical Society</i> , 2012, 134, 1275-1283. | 13.7 | 118 |
| 59 | In Situ NMR, Ex Situ XRD and SEM Study of the Hydrothermal Crystallization of Nanoporous Aluminum Trimesates MIL-96, MIL-100, and MIL-110. <i>Chemistry of Materials</i> , 2012, 24, 2462-2471. | 6.7 | 107 |
| 60 | Infrared Spectroscopy Investigation of the Acid Sites in the Metal-Organic Framework Aluminum Trimesate MIL-100(Al). <i>Journal of Physical Chemistry C</i> , 2012, 116, 5710-5719. | 3.1 | 136 |
| 61 | Monitoring the Activation Process of the Giant Pore MIL-100(Al) by Solid State NMR. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17934-17944. | 3.1 | 70 |
| 62 | ⁷¹ Ga Slow-CTMAS NMR and Crystal Structures of MOF-Type Gallium Carboxylates with Infinite Edge-Sharing Octahedra Chains (MIL-120 and MIL-124). <i>Chemistry of Materials</i> , 2011, 23, 39-47. | 6.7 | 53 |
| 63 | Metal-Organic-Framework-Type 1D-Channel Open Network of a Tetravalent Uranium Trimesate. <i>Inorganic Chemistry</i> , 2011, 50, 11865-11867. | 4.0 | 50 |
| 64 | Synthesis and crystal structure of a new MOF-type indium pyromellitate (MIL-117) with infinite chains of unusual cis connection of octahedra InO ₄ (OH) ₂ . <i>Solid State Sciences</i> , 2011, 13, 1488-1493. | 3.2 | 12 |
| 65 | A layered coordination polymer based on an azodibenzoate linker connected to aluminium (MIL-129). <i>CrystEngComm</i> , 2010, 12, 3225. | 2.6 | 18 |
| 66 | Full spectroscopic characterization of an hydrolytically stable and colored Ti(IV)-precursor in solution. <i>Comptes Rendus Chimie</i> , 2010, 13, 69-96. | 0.5 | 15 |
| 67 | Generating Reactive MILs: Isocyanate- and Isothiocyanate-Bearing MILs through Postsynthetic Modification. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4644-4648. | 13.8 | 117 |
| 68 | High-Throughput Aided Synthesis of the Porous Metal-Organic Framework-Type Aluminum Pyromellitate, MIL-121, with Extra Carboxylic Acid Functionalization. <i>Inorganic Chemistry</i> , 2010, 49, 9852-9862. | 4.0 | 139 |
| 69 | Pd Nanoparticles Embedded into a Metal-Organic Framework: Synthesis, Structural Characteristics, and Hydrogen Sorption Properties. <i>Journal of the American Chemical Society</i> , 2010, 132, 2991-2997. | 13.7 | 320 |
| 70 | ¹²⁹ Xe NMR Study of the Framework Flexibility of the Porous Hybrid MIL-53(Al). <i>Journal of the American Chemical Society</i> , 2010, 132, 11599-11607. | 13.7 | 109 |
| 71 | Two metal-organic frameworks with infinite indium hydroxide chains connected through tetradentate carboxylate linkers. <i>Solid State Sciences</i> , 2009, 11, 29-35. | 3.2 | 23 |
| 72 | Syntheses and structures of the MOF-type series of metal 1,4,5,8-naphthalenetetracarboxylates M ₂ (OH) ₂ [C ₁₄ O ₈ H ₄] (Al, Ga, In) with infinite trans-connected M-OH-M chains (MIL-122). <i>Solid State Sciences</i> , 2009, 11, 1507-1512. | 3.2 | 56 |

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|----|---|------|-----------|
| 73 | The Extra-framework Sublattice of the Metal-Organic Framework MIL-10: A Solid-State NMR Investigation. <i>Chemistry - A European Journal</i> , 2009, 15, 3139-3146. | 3.3 | 51 |
| 74 | Breathing Transitions in MIL-53(Al) Metal-Organic Framework Upon Xenon Adsorption. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8314-8317. | 13.8 | 176 |
| 75 | A MOF-type magnesium benzene-1,3,5-tribenzoate with two-fold interpenetrated ReO ₃ nets. <i>CrystEngComm</i> , 2009, 11, 58-60. | 2.6 | 53 |
| 76 | Synthesis, Single-Crystal X-ray Microdiffraction, and NMR Characterizations of the Giant Pore Metal-Organic Framework Aluminum Trimesate MIL-100. <i>Chemistry of Materials</i> , 2009, 21, 5695-5697. | 6.7 | 290 |
| 77 | Structural Transitions and Flexibility during Dehydration/Rehydration Process in the MOF-type Aluminum Pyromellitate Al ₂ (OH) ₂ [C ₁₀ O ₈ H ₂] (MIL-118). <i>Crystal Growth and Design</i> , 2009, 9, 2927-2936. | 3.0 | 87 |
| 78 | Occurrence of Uncommon Infinite Chains Consisting of Edge-Sharing Octahedra in a Porous Metal Organic Framework-Type Aluminum Pyromellitate Al ₄ (OH) ₈ [C ₁₀ O ₈ H ₂] (MIL-120): Synthesis, Structure, and Gas Sorption Properties. <i>Chemistry of Materials</i> , 2009, 21, 5783-5791. | 6.7 | 102 |
| 79 | XRD and IR structural investigations of a particular breathing effect in the MOF-type gallium terephthalate MIL-53(Ga). <i>Dalton Transactions</i> , 2009, , 2241. | 3.3 | 250 |
| 80 | The Kagomé Topology of the Gallium and Indium Metal-Organic Framework Types with a MIL-68 Structure: Synthesis, XRD, Solid-State NMR Characterizations, and Hydrogen Adsorption. <i>Inorganic Chemistry</i> , 2008, 47, 11892-11901. | 4.0 | 270 |
| 81 | The use of aluminium and others p elements (gallium, indium) for the generation of MOF-type materials. <i>Studies in Surface Science and Catalysis</i> , 2008, , 447-450. | 1.5 | 3 |
| 82 | Hydrothermal Crystallization of Three Calcium-Based Hybrid Solids with 2,6-Naphthalene- or 4,4'-Biphenyl-Dicarboxylates. <i>Crystal Growth and Design</i> , 2008, 8, 685-689. | 3.0 | 51 |
| 83 | Synthesis, crystal structure and ⁷¹ Ga solid state NMR of a MOF-type gallium trimesate (MIL-96) with ¹ / ₄ 3-oxo bridged trinuclear units and a hexagonal 18-ring network. <i>Microporous and Mesoporous Materials</i> , 2007, 105, 111-117. | 4.4 | 74 |
| 84 | A microdiffraction set-up for nanoporous metal-organic-framework-type solids. <i>Nature Materials</i> , 2007, 6, 760-764. | 27.5 | 154 |
| 85 | A new calcium trimellitate coordination polymer with a chain-like structure. <i>Solid State Sciences</i> , 2007, 9, 455-458. | 3.2 | 30 |
| 86 | MIL-96, a Porous Aluminum Trimesate 3D Structure Constructed from a Hexagonal Network of 18-Membered Rings and ¹ / ₄ 3-Oxo-Centered Trinuclear Units. <i>Journal of the American Chemical Society</i> , 2006, 128, 10223-10230. | 13.7 | 386 |
| 87 | A new indium metal-organic 3D framework with 1,3,5-benzenetricarboxylate, MIL-96 (In), containing ¹ / ₄ 3-oxo-centered trinuclear units and a hexagonal 18-ring network. <i>Materials Research Bulletin</i> , 2006, 41, 948-954. | 5.2 | 76 |
| 88 | Porous Textile Composites (Ptc) for the Removal and the Decomposition of Chemical Warfare Agents (Cwas) - a Review. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 1 |