# Pantelis N Trikalitis

List of Publications by Year
in descending order

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| 68 | 4,329 | 134610 | 120465 |
|---|---|---|---|
| papers | citations | 34 h-index | 65 g-index |

| 76 | 76 | 76 | 7374 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Accessing 14-Connected Nets: Continuous Breathing, Hydrophobic Rare-Earth Metal Organic Frameworks Based on 14-c Hexanuclear Clusters with High Affinity for Non-Polar Vapors. ACS Applied Materials & Interfaces, 2022, 14, 22242-22251. | 4.0 | 7 |
| 2 | A diamino-functionalized silsesquioxane pillared graphene oxide for CO<sub>2</sub> capture. RSC Advances, 2021, 11, 13743-13750. | 1.7 | 1 |
| 3 | Continuous Breathing Rare-Earth MOFs Based on Hexanuclear Clusters with Gas Trapping Properties. Journal of the American Chemical Society, 2021, 143, 10250-10260. | 6.6 | 30 |
| 4 | Water-stable 2-D Zr MOFs with exceptional UO<sub>2</sub><sup>2+</sup> sorption capability. Journal of Materials Chemistry A, 2020, 8, 1849-1857. | 5.2 | 29 |
| 5 | Remarkable Structural Diversity between Zr/Hf and Rare-Earth MOFs via Ligand Functionalization and the Discovery of Unique (4, 8)-c and (4, 12)-connected Frameworks. Journal of the American Chemical Society, 2020, 142, 15986-15994. | 6.6 | 40 |
| 6 | Improving the Cd2+ detection capability of a new anionic rare earth metalâ€“organic framework based on a [RE6(Î¼3-OH)8]10+ secondary building unit: an ion-exchange approach towards more efficient sensors. Molecular Systems Design and Engineering, 2020, 5, 1077-1087. | 1.7 | 8 |
| 7 | A Microporous Co(II)-Based 3-D Metal Organic Framework Built from Magnetic Infinite Rod-Shaped Secondary Building Units. European Journal of Inorganic Chemistry, 2019, 2019, 4056-4062. | 1.0 | 4 |
| 8 | A Microporous Co(II)-Based 3-D Metal Organic Framework Built from Magnetic Infinite Rod-Shaped Secondary Building Units. European Journal of Inorganic Chemistry, 2019, 2019, 4055-4055. | 1.0 | 0 |
| 9 | Water Interaction with Mineral Dust Aerosol: Particle Size and Hygroscopic Properties of Dust. ACS Earth and Space Chemistry, 2018, 2, 376-386. | 1.2 | 37 |
| 10 | High-quality graphene sheets decorated with ZIF-8 nanocrystals. Microporous and Mesoporous Materials, 2018, 262, 68-76. | 2.2 | 12 |
| 11 | Heterometallic In(III)â€“Pd(II) Porous Metalâ€“Organic Framework with Square-Octahedron Topology Displaying High CO<sub>2</sub> Uptake and Selectivity toward CH<sub>4</sub> and N<sub>2</sub>. Inorganic Chemistry, 2018, 57, 7244-7251. | 1.9 | 37 |
| 12 | Comparative Study of Supported Monometallic Catalysts in the Liquid-Phase Hydrogenation of Furfural: Batch Versus Continuous Flow. ACS Sustainable Chemistry and Engineering, 2018, 6, 9831-9844. | 3.2 | 58 |
| 13 | Chalcogenide Aerogels as Sorbents for Noble Gases (Xe, Kr). ACS Applied Materials & Interfaces, 2017, 9, 33389-33394. | 4.0 | 25 |
| 14 | Directed assembly of a high surface area 2D metalâ€“organic framework displaying the augmented â€œkagomÃ© dualâ€•(kgd-a) layered topology with high H<sub>2</sub>and CO<sub>2</sub>uptake. Inorganic Chemistry Frontiers, 2017, 4, 825-832. | 3.0 | 8 |
| 15 | Liquid phase epitaxial growth of heterostructured hierarchical MOF thin films. Chemical Communications, 2017, 53, 6191-6194. | 2.2 | 53 |
| 16 | Structural Stability, Vibrational Properties, and Photoluminescence in CsSnI<sub>3</sub> Perovskite upon the Addition of SnF<sub>2</sub>. Inorganic Chemistry, 2017, 56, 84-91. | 1.9 | 105 |
| 17 | Reticular Chemistry and the Discovery of a New Family of Rare Earth (4, 8)-Connected Metal-Organic Frameworks with csq Topology Based on RE<sub>4</sub>(Î¼<sub>3</sub>-O)<sub>2</sub>(COO)<sub>8</sub> Clusters. ACS Applied Materials & Interfaces, 2017, 9, 44560-44566. | 4.0 | 25 |
| 18 | Mercouri G. Kanatzidis: Excellence and Innovations in Inorganic and Solid-State Chemistry. Inorganic Chemistry, 2017, 56, 7582-7597. | 1.9 | 7 |

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|---|---|---|---|
| 19 | Reticular Chemistry at Its Best: Directed Assembly of Hexagonal Building Units into the Awaited Metal-Organic Framework with the Intricate Polybenzene Topology, pbz-MOF. Journal of the American Chemical Society, 2016, 138, 12767-12770. | 6.6 | 101 |
| 20 | Exceptional gravimetric and volumetric CO2 uptake in a palladated NbO-type MOF utilizing cooperative acidic and basic, metalâ€“CO2 interactions. Chemical Communications, 2016, 52, 10559-10562. | 2.2 | 40 |
| 21 | A microporous Cu<sup>2+</sup>MOF based on a pyridyl isophthalic acid Schiff base ligand with high CO<sub>2</sub>uptake. Inorganic Chemistry Frontiers, 2016, 3, 1527-1535. | 3.0 | 22 |
| 22 | Reticular Synthesis of HKUST-like tbo-MOFs with Enhanced CH<sub>4</sub> Storage. Journal of the American Chemical Society, 2016, 138, 1568-1574. | 6.6 | 193 |
| 23 | A Microporous Co<sup>2+</sup> Metal Organic Framework with Single-Crystal to Single-Crystal Transformation Properties and High CO<sub>2</sub> Uptake. Crystal Growth and Design, 2015, 15, 185-193. | 1.4 | 24 |
| 24 | MOF Crystal Chemistry Paving the Way to Gas Storage Needs: Aluminum-Based soc-MOF for CH<sub>4</sub>, O<sub>2</sub>, and CO<sub>2</sub> Storage. Journal of the American Chemical Society, 2015, 137, 13308-13318. | 6.6 | 632 |
| 25 | Drastic Enhancement of the CO<sub>2</sub> Adsorption Properties in Sulfone-Functionalized Zr- and Hf-UiO-67 MOFs with Hierarchical Mesopores. Inorganic Chemistry, 2014, 53, 679-681. | 1.9 | 87 |
| 26 | A â€œturn-onâ€â€“turning-to-ratiometric sensor for zinc(<scp>ii</scp>) ions in aqueous media. RSC Advances, 2014, 4, 693-696. | 1.7 | 10 |
| 27 | Toward Efficient Drug Delivery through Suitably Prepared Metalâ€“Organic Frameworks: A First-Principles Study. Journal of Physical Chemistry C, 2014, 118, 8885-8890. | 1.5 | 37 |
| 28 | Cs<sub>2</sub>M<sup>II</sup>M<sup>IV</sup><sub>3</sub>Q<sub>8</sub> (Q = S, Se, Te): An Extensive Family of Layered Semiconductors with Diverse Band Gaps. Chemistry of Materials, 2013, 25, 3344-3356. | 3.2 | 75 |
| 29 | Controlled preparation of carbon nanotubeâ€“iron oxide nanoparticle hybrid materials by a modified wet impregnation method. Journal of Nanoparticle Research, 2013, 15, 1. | 0.8 | 13 |
| 30 | A Straight Forward Route for the Development of Metalâ€“Organic Frameworks Functionalized with Aromatic â˜OH Groups: Synthesis, Characterization, and Gas (N<sub>2</sub>, Ar, H<sub>2</sub>,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 855-862. | 1.9 | 107 |
| 31 | Disposable screen-printed sensors modified with bismuth precursor compounds for the rapid voltammetric screening of trace Pb(II) and Cd(II). Analytica Chimica Acta, 2012, 728, 1-8. | 2.6 | 83 |
| 32 | Hydrogen Storage in Novel Li-Doped Corrole Metal-Organic Frameworks. Journal of Physical Chemistry C, 2012, 116, 8359-8363. | 1.5 | 30 |
| 33 | A Highly Porous Interpenetrated Metalâ€“Organic Framework from the Use of a Novel Nanosized Organic Linker. Inorganic Chemistry, 2011, 50, 11297-11299. | 1.9 | 33 |
| 34 | Remarkable structural diversity and single-crystal-to-single-crystal transformations in sulfone functionalized lanthanide MOFs. CrystEngComm, 2010, 12, 1034-1037. | 1.3 | 39 |
| 35 | Unprecedented Sulfoneâ€Functionalized Metalâ€“Organic Frameworks and Gasâ€Sorption Properties. Chemistry - A European Journal, 2009, 15, 4523-4527. | 1.7 | 124 |
| 36 | (H2NC4H8NCH2CH2NH2)(HNCH2CH2NH2)3Zn2Ge2Se8: A new, templated one-dimensional ternary semiconductor stabilized by mixed organic cations. Polyhedron, 2009, 28, 3193-3198. | 1.0 | 9 |

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| 37 | (H2NC4H8NCH2CH2NH2)2Zn2Sn2Se7: a hybrid ternary semiconductor stabilized by amine molecules acting simultaneously as ligands and counterions. Chemical Communications, 2009, , 1556. | 2.2 | 10 |
| 38 | Molecular Supertetrahedron Decorated with Exposed Sulfonate Groups Built from Mixed-Valence Tetranuclear Fe<sub>3</sub><sup>3+</sup>Fe<sup>2+</sup>(Î¼<sub>3</sub>-ÎŸ)(Î¼<sub>3</sub>-SO<sub>4</sub>)<sub>3</sub>(â CO<sub> Clusters. Inorganic Chemistry, 2009, 48, 9968-9970. | 1.9 | 28 |
| 39 | Evaluation of first-row transition metal oxides supported on clay minerals for catalytic growth of carbon nanostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 152, 44-49. | 1.7 | 36 |
| 40 | Straightforward Route to the Adamantane Clusters [Sn4Q10]4â^' (Q = S, Se, Te) and Use in the Assembly of Open-Framework Chalcogenides (Me4N)2M[Sn4Se10] (M = MnII, FeII, CoII, ZnII) Including the First Telluride Member (Me4N)2Mn[Ge4Te10]. Inorganic Chemistry, 2008, 47, 11920-11929. | 1.9 | 50 |
| 41 | Charge Transport in a Single Superconducting Tin Nanowire Encapsulated in a Multiwalled Carbon Nanotube. Nano Letters, 2008, 8, 3060-3064. | 4.5 | 33 |
| 42 | Porous Semiconducting Gels and Aerogels from Chalcogenide Clusters. Science, 2007, 317, 490-493. | 6.0 | 381 |
| 43 | Novel Coordination Polymers Based on the Tetrathioterephthalate Dianion as the Bridging Ligand. Inorganic Chemistry, 2007, 46, 8487-8489. | 1.9 | 36 |
| 44 | Carbon Nanotubes Encapsulating Superconducting Single-Crystalline Tin Nanowires. Nano Letters, 2006, 6, 1131-1135. | 4.5 | 86 |
| 45 | Mesostructured cobalt and nickel molybdenum sulfides. Microporous and Mesoporous Materials, 2006, 88, 187-190. | 2.2 | 11 |
| 46 | Electrochemical study of ferrocene intercalated vanadium pentoxide xerogel/polyvinyl alcohol composite films: Application in the development of amperometric biosensors. Electrochemistry Communications, 2005, 7, 781-788. | 2.3 | 29 |
| 47 | Synthesis, characterization and performance of vanadium hexacyanoferrate as electrocatalyst of H2O2. Electrochemistry Communications, 2005, 7, 1398-1404. | 2.3 | 121 |
| 48 | Three-Dimensional Structure of Nanocomposites from Atomic Pair Distribution Function Analysis:Â Study of Polyaniline and (Polyaniline)0.5V2O5Â·1.0H2O. Journal of the American Chemical Society, 2005, 127, 8805-8812. | 6.6 | 52 |
| 49 | Periodic Hexagonal Mesostructured Chalcogenides Based on Platinum and [SnSe4]4-and [SnTe4]4-Precursors. Solvent Dependence of Nanopore and Wall Organization. Journal of the American Chemical Society, 2005, 127, 3910-3920. | 6.6 | 32 |
| 50 | Cooling of Melts: Kinetic Stabilization and Polymorphic Transitions in the KInSnSe4 System.. ChemInform, 2004, 35, no. | 0.1 | 0 |
| 51 | Structural, compositional and acidic characteristics of nanosized amorphous or partially crystalline ZSM-5 zeolite-based materials. Microporous and Mesoporous Materials, 2004, 75, 89-100. | 2.2 | 70 |
| 52 | Mesostructured Selenides with Cubic MCM-48 Type Symmetry:Â Large Framework Elasticity and Uncommon Resiliency to Strong Acids. Journal of the American Chemical Society, 2004, 126, 15326-15327. | 6.6 | 28 |
| 53 | Cooling of Melts:Â Kinetic Stabilization and Polymorphic Transitions in the KInSnSe4System. Inorganic Chemistry, 2004, 43, 2237-2239. | 1.9 | 23 |
| 54 | Magnetic Fe2O3â€“Al2O3 composites prepared by a modified wet impregnation method. Journal of Materials Chemistry, 2003, 13, 871-876. | 6.7 | 36 |

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|---|---|---|---|
| 55 | High nuclearity nickel compounds with three, four or five metal atoms showing antibacterial activity. Journal of Inorganic Biochemistry, 2003, 93, 256-264. | 1.5 | 112 |
| 56 | Structure of Redox Intercalated (NH4)0.5V2O5Â·mH2O Xerogel Using the Pair Distribution Function Technique. Chemistry of Materials, 2003, 15, 3337-3342. | 3.2 | 43 |
| 57 | Surfactant Templated Assembly of Cubic Mesostructured Semiconductors Based on [Sn2Se6] 4- and Pt2+ in Single-Crystal Form.. Materials Research Society Symposia Proceedings, 2002, 755, 1. | 0.1 | 1 |
| 58 | Single-Crystal Mesostructured Semiconductors with CubicIa3Ì„dSymmetry and Ion-Exchange Properties. Journal of the American Chemical Society, 2002, 124, 12255-12260. | 6.6 | 102 |
| 59 | Platinum Chalcogenido MCM-41 Analogues. High Hexagonal Order in Mesostructured Semiconductors Based on Pt2+and [Ge4Q10]4-(Q = S, Se) and [Sn4Se10]4-Adamantane Clusters. Journal of the American Chemical Society, 2002, 124, 2604-2613. | 6.6 | 79 |
| 60 | Structure of V2O5Â·nH2O Xerogel Solved by the Atomic Pair Distribution Function Technique. Journal of the American Chemical Society, 2002, 124, 10157-10162. | 6.6 | 406 |
| 61 | Hexagonal Pore Organization in Mesostructured Metal Tin Sulfides Built with [Sn2S6]4- Cluster. Nano Letters, 2002, 2, 513-517. | 4.5 | 63 |
| 62 | Quaternary Germanides Formed in Molten Aluminum: Tb2NiAl4Ge2 and Ce2NiAl6-xGe4-y (x â‰¼ 0.24, y â‰¼) Tj ETQq0 0 0 rgBT /Overloc<br>Anorganische Und Allgemeine Chemie, 2002, 628, 1568. | 0.6 | 22 |
| 63 | Hexagonal mesostructured chalcogenide frameworks formed by linking [Ge4Q10]4â^' (Q = S, Se) clusters with Sb3+ and Sn4+. Chemical Communications, 2001, , 809-810. | 2.2 | 25 |
| 64 | Surfactant Templated Assembly of Hexagonal Mesostructured Semiconductors Based on [Ge4Q10]4-(Q=S, Se) and Pd2+ and Pt2+ ions. Materials Research Society Symposia Proceedings, 2001, 703, 1. | 0.1 | 0 |
| 65 | Surfactant Templated Assembly of Hexagonal Mesostructured Semiconductors Based on [Ge4Q10]4-(Q=S, Se) and Pd2+ and Pt2+ ions.. Materials Research Society Symposia Proceedings, 2001, 707, 871. | 0.1 | 0 |
| 66 | Varied pore organization in mesostructured semiconductors based on the [SnSe4]4- anion. Nature, 2001, 410, 671-675. | 13.7 | 161 |
| 67 | Supramolecular Assembly of Hexagonal Mesostructured Germanium Sulfide and Selenide Nanocomposites Incorporating the Biologically Relevant Fe4S4 Cluster. Angewandte Chemie - International Edition, 2000, 39, 4558-4562. | 7.2 | 32 |
| 68 | Light-Emitting Meso-Structured Sulfides with Hexagonal Symmetry:Â Supramolecular Assembly of [Ge4S10]4-Clusters with Trivalent Metal Ions and Cetylpyridinium Surfactant. Journal of the American Chemical Society, 2000, 122, 10230-10231. | 6.6 | 70 |