Marco Taddei

List of Publications by Year
in descending order

48 papers	2,079 citations	236612 25 h-index	233125 45 g-index
82 all docs	82 docs citations	82 times ranked	2971 citing authors

#	Article	IF	Citations
1	Overcoming mass transfer limitations in cross-linked polyethyleneimine-based adsorbents to enable selective CO₂ capture at ambient temperature. Materials Advances, 2022, 3, 3174-3191.	2.6	3
2	Interplay between oxygen doping and ultra-microporosity improves the CO2/N2 separation performance of carbons derived from aromatic polycarboxylates. Carbon, 2021, 173, 989-1002.	5.4	16
3	Engineering metalâ€“organic frameworks for adsorption-based gas separations: from process to atomic scale. Molecular Systems Design and Engineering, 2021, 6, 841-875.	1.7	36
4	Drastic enhancement of carbon dioxide adsorption in fluoroalkyl-modified poly(allylamine). Journal of Materials Chemistry A, 2021, 9, 10827-10837.	5.2	10
5	Inâ€…Situ Xâ€ray Diffraction Investigation of the Crystallisation of Perfluorinated Ce^{IV}â€Based Metalâ€“Organic Frameworks with UiOâ€66 and MILâ€140 Architectures**. Chemistry - A European Journal, 2021, 27, 6579-6592.	1.7	10
6	Metalâ€“Organic Frameworks in Italy: From synthesis and advanced characterization to theoretical modeling and applications. Coordination Chemistry Reviews, 2021, 437, 213861.	9.5	10
7	â€œShake â€˜n Bakeâ€•Route to Functionalized Zr-UiO-66 Metalâ€“Organic Frameworks. Inorganic Chemistry, 2021, 60, 14294-14301.	1.9	20
8	Investigating the effect of positional isomerism on the assembly of zirconium phosphonates based on tritopic linkers. Dalton Transactions, 2020, 49, 3662-3666.	1.6	8
9	Influence of Water in the Synthesis of the Zirconium-Based Metalâ€“Organic Framework UiO-66: Isolation and Reactivity of [ZrCl(OH)₂(DMF)₂]Cl. Inorganic Chemistry, 2020, 59, 7860-7868.	1.9	29
10	Band gap modulation in zirconium-based metalâ€“organic frameworks by defect engineering. Journal of Materials Chemistry A, 2019, 7, 23781-23786.	5.2	79
11	Solvent-Free Synthetic Route for Cerium(IV) Metalâ€“Organic Frameworks with UiO-66 Architecture and Their Photocatalytic Applications. ACS Applied Materials & Interfaces, 2019, 11, 45031-45037.	4.0	58
12	Metal Phosphonates and Phosphinates. Crystals, 2019, 9, 454.	1.0	4
13	An Optimised Compaction Process for Zr-Fumarate (MOF-801). Inorganics, 2019, 7, 110.	1.2	17
14	Epoxy Cross-Linked Polyamine CO₂ Sorbents Enhanced via Hydrophobic Functionalization. Chemistry of Materials, 2019, 31, 4673-4684.	3.2	33
15	New Directions in Metal Phosphonate and Phosphinate Chemistry. Crystals, 2019, 9, 270.	1.0	81
16	A new approach to enhancing the CO₂ capture performance of defective UiO-66 <i>via</i> post-synthetic defect exchange. Dalton Transactions, 2019, 48, 3349-3359.	1.6	57
17	Water-Based Synthesis and Enhanced CO₂ Capture Performance of Perfluorinated Cerium-Based Metalâ€“Organic Frameworks with UiO-66 and MIL-140 Topology. ACS Sustainable Chemistry and Engineering, 2019, 7, 394-402.	3.2	75
18	Same Not the Same: Thermally Driven Transformation of Nickel Phosphinate-Bipyridine One-Dimensional Chains into Three-Dimensional Coordination Polymers. Crystal Growth and Design, 2018, 18, 2234-2242.	1.4	9

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19	Postâ€Synthetic Ligand Exchange in Zirconiumâ€Based Metalâ€“Organic Frameworks: Beware of The Defects!. Angewandte Chemie - International Edition, 2018, 57, 11706-11710.	7.2	107
20	Postâ€Synthetic Ligand Exchange in Zirconiumâ€Based Metalâ€“Organic Frameworks: Beware of The Defects!. Angewandte Chemie, 2018, 130, 11880-11884.	1.6	3
21	When defects turn into virtues: The curious case of zirconium-based metal-organic frameworks. Coordination Chemistry Reviews, 2017, 343, 1-24.	9.5	226
22	In situ high-resolution powder X-ray diffraction study of UiO-66 under synthesis conditions in a continuous-flow microwave reactor. CrystEngComm, 2017, 19, 3206-3214.	1.3	28
23	Mixed-linker UiO-66: structureâ€“property relationships revealed by a combination of high-resolution powder X-ray diffraction and density functional theory calculations. Physical Chemistry Chemical Physics, 2017, 19, 1551-1559.	1.3	47
24	A three-dimensional view of structural changes caused by deactivation of fluid catalytic cracking catalysts. Nature Communications, 2017, 8, 809.	5.8	72
25	Crystalline versus amorphous one-dimensional to three-dimensional coordination polymer transformations. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C962-C962.	0.0	0
26	Continuousâ€Flow Microwave Synthesis of Metalâ€“Organic Frameworks: A Highly Efficient Method for Largeâ€Scale Production. Chemistry - A European Journal, 2016, 22, 3245-3249.	1.7	132
27	Robust Metalâ€Organic Frameworks Based on Tritopic Phosphonoaromatic Ligands. European Journal of Inorganic Chemistry, 2016, 2016, 4300-4309.	1.0	59
28	Decomposition Process of Carboxylate MOF HKUST-1 Unveiled at the Atomic Scale Level. Journal of Physical Chemistry C, 2016, 120, 12879-12889.	1.5	99
29	Aging of the reaction mixture as a tool to modulate the crystallite size of UiO-66 into the low nanometer range. Chemical Communications, 2016, 52, 6411-6414.	2.2	39
30	Amino-Functionalized Layered Crystalline Zirconium Phosphonates: Synthesis, Crystal Structure, and Spectroscopic Characterization. Inorganic Chemistry, 2016, 55, 6278-6285.	1.9	23
31	Prohibited and allowed crystal-crystal transformations in phosphinate based coordination polymers. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s115-s115.	0.0	0
32	Efficient microwave assisted synthesis of metalâ€“organic framework UiO-66: optimization and scale up. Dalton Transactions, 2015, 44, 14019-14026.	1.6	104
33	A structural and 1H NMR relaxometric study on novel layered carboxyalkylaminophosphonate nanocrystals with Gd(iii) ions located in the framework. Dalton Transactions, 2015, 44, 19072-19075.	1.6	2
34	A Layered Mixed Zirconium Phosphate/Phosphonate with Exposed Carboxylic and Phosphonic Groups: X-ray Powder Structure and Proton Conductivity Properties. Inorganic Chemistry, 2014, 53, 13220-13226.	1.9	71
35	The first route to highly stable crystalline microporous zirconium phosphonate metalâ€“organic frameworks. Chemical Communications, 2014, 50, 14831-14834.	2.2	96
36	The use of a rigid tritopic phosphonic ligand for the synthesis of a robust honeycomb-like layered zirconium phosphonate framework. Chemical Communications, 2014, 50, 5737-5740.	2.2	54

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37	Layered Metal(IV) Phosphonates with Rigid Pendant Groups: New Synthetic Approaches to Nanosized Zirconium Phosphate Phenylphosphonates. Inorganic Chemistry, 2014, 53, 2222-2229.	1.9	24
38	Synthesis, Crystal Structure, and Proton Conductivity of One-Dimensional, Two-Dimensional, and Three-Dimensional Zirconium Phosphonates Based on Glyphosate and Glyphosine. Inorganic Chemistry, 2013, 52, 12131-12139.	1.9	47
39	On the role of non-covalent interactions in the assembly of 3D zirconium methyl- and ethyl-N,N-bis phosphonates. Dalton Transactions, 2013, 42, 9671.	1.6	14
40	Supramolecular interactions impacting on the water stability of tubular metalâ€“organic frameworks. RSC Advances, 2013, 3, 26177.	1.7	14
41	Synthesis, breathing, and gas sorption study of the first isoreticular mixed-linker phosphonate based metalâ€“organic frameworks. Chemical Communications, 2013, 49, 1315.	2.2	85
42	Integrated PLGAâ€“Ag nanocomposite systems to control the degradation rate and antibacterial properties. Journal of Applied Polymer Science, 2013, 130, 1185-1193.	1.3	33
43	Multitechnique Experimental Insight on an Unusual Crystal-to-Crystal High Temperature Solid State Reaction in Zirconium Carboxypyridinephosphonates: From One-Dimensional Chains to Two-Dimensional Hybrid Layers Through HF Elimination. Crystal Growth and Design, 2012, 12, 5462-5470.	1.4	16
44	Influence of Ï€â€“Ï€ Stacking Interactions on the Assembly of Layered Copper Phosphonate Coordination Polymers: Combined Powder Diffraction and Electron Paramagnetic Resonance Study. Crystal Growth and Design, 2012, 12, 2327-2335.	1.4	24
45	Design and synthesis of plasticizing fillers based on zirconium phosphonates for glycerol-free composite starch films. Journal of Materials Chemistry, 2012, 22, 5098.	6.7	16
46	New Hybrid Zirconium Aminophosphonates Containing Piperidine and Bipiperidine Groups. Inorganic Chemistry, 2011, 50, 10835-10843.	1.9	19
47	Chapter 2. Zirconium Phosphonates. , 2011, , 45-86.		1
48	Synthesis and Crystal Structure from X-ray Powder Diffraction Data of Two Zirconium Diphosphonates Containing Piperazine Groups. Inorganic Chemistry, 2010, 49, 9664-9670.	1.9	60