

Muhammad Usman

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papers

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35
ext. papers

1,167
ext. citations

8
avg, IF

4.43
L-index

#	Paper	IF	Citations
30	Semiconductor Metal-Organic Frameworks: Future Low-Bandgap Materials. <i>Advanced Materials</i> , 2017 , 29, 1605071	24	144
29	Physiological, biochemical and molecular responses of the potato (<i>Solanum tuberosum</i> L.) plant to moderately elevated temperature. <i>Plant, Cell and Environment</i> , 2014 , 37, 439-50	8.4	114
28	Integration of a (-Cu-S-) plane in a metal-organic framework affords high electrical conductivity. <i>Nature Communications</i> , 2019 , 10, 1721	17.4	85
27	Electrically Driven White Light Emission from Intrinsic Metal-Organic Framework. <i>ACS Nano</i> , 2016 , 10, 8366-75	16.7	75
26	Semiconductor Behavior of a Three-Dimensional Strontium-Based Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22767-74	9.5	59
25	Intrinsic low dielectric behaviour of a highly thermally stable Sr-based metal-organic framework for interlayer dielectric materials. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3762-3768	7.1	54
24	Metal-Organic Frameworks: New Interlayer Dielectric Materials. <i>ChemElectroChem</i> , 2015 , 2, 786-788	4.3	51
23	Anion-Controlled Dielectric Behavior of Homochiral Tryptophan-Based Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2014 , 14, 1572-1579	3.5	46
22	Trapped Photons Induced Ultrahigh External Quantum Efficiency and Photoresponsivity in Hybrid Graphene/Metal-Organic Framework Broadband Wearable Photodetectors. <i>Advanced Functional Materials</i> , 2018 , 28, 1804802	15.6	38
21	Metal-organic frameworks for electronics: emerging second order nonlinear optical and dielectric materials. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 054204	7.1	35
20	Expanding the dimensions of metal-organic framework research towards dielectrics. <i>Coordination Chemistry Reviews</i> , 2018 , 360, 77-91	23.2	33
19	Zn(II)-based metal-organic framework: an exceptionally thermally stable, guest-free low dielectric material. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1508-1513	7.1	29
18	Continuous broadband emission from a metal-organic framework as a human-friendly white light source. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4728-4732	7.1	27
17	Zr-MOF/Polyaniline Composite Films with Exceptional Seebeck Coefficient for Thermoelectric Material Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3400-3406	9.5	25
16	Guest dependent dielectric properties of nickel(II)-based supramolecular networks. <i>CrystEngComm</i> , 2014 , 16, 6309-6315	3.3	23
15	Low Dielectric Behavior of a Robust, Guest-Free Magnesium(II)-Organic Framework: A Potential Application of an Alkaline-Earth Metal Compound. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 1669-1674	2.3	16
14	Highly hydrophobic metal-organic framework for self-protecting gate dielectrics. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11958-11965	13	11

13	High- κ Samarium-Based Metal-Organic Framework for Gate Dielectric Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21872-21878	9.5	10
12	Single-Molecule-Based Electroluminescent Device as Future White Light Source. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4084-4092	9.5	7
11	Polar Molecule Confinement Effects on Dielectric Modulations of Sr-Based Metal-Organic Frameworks. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 836-844	4	6
10	Identification of TIMING OF CAB EXPRESSION 1 as a temperature-sensitive negative regulator of tuberization in potato. <i>Journal of Experimental Botany</i> , 2019 , 70, 5703-5714	7	6
9	Thermally stable indium based metal-organic frameworks with high dielectric permittivity. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9724-9733	7.1	5
8	Optimization of wheat-straw-extracted cellulose via response surface methodology and mechanical properties of its poly(lactide)-based biocomposites. <i>Polymer Composites</i> , 2020 , 41, 5355-5364	3	4
7	Phosphor-Free Electrically Driven White Light Emission from Nanometer-Thick Barium-Organic Framework Films. <i>ACS Applied Nano Materials</i> , 2021 , 4, 2395-2403	5.6	3
6	Exceptional Low Dielectric Behavior of Chemically Robust, Guest-Free Co- and Mn-Based Coordination Polymers. <i>ChemElectroChem</i> , 2019 , 6, 623-626	4.3	3
5	Unusual polymorphs of rac-3-phenylpyrrolidine-2,5-dione with Z? = 1, 2, and 3. <i>CrystEngComm</i> , 2019 , 21, 6819-6829	3.3	1
4	Thin Film Growth of 3D Sr-based Metal-Organic Framework on Conductive Glass via Electrochemical Deposition.. <i>ChemistryOpen</i> , 2022 , 11, e202100295	2.3	0
3	Two metal-organic frameworks based on Sr and 1,2,4,5-tetra-kis-(4-carb-oxy-phen-yl)benzene linkers.. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2021 , 77, 1243-1248	0.7	0
2	Metal-Organic Frameworks for Electrocatalysis 2020 , 29-66		
1	Magnetic behaviour of 3D metal-organic frameworks constructed via 1,2,4,5-benzenetetracarboxylate linker and 4f Ce(III) or 3d Fe(III) metal nodes. <i>Inorganic Chemistry Communication</i> , 2020 , 122, 108261	3.1	