Muhammad Usman

List of Publications by Year in Descending Order

30 papers	932 citations	16 h-index	30 g-index
35 ext. papers	1,167 ext. citations	8 avg, IF	4.43 L-index

#	Paper	IF	Citations
30	Thin Film Growth of 3D Sr-based Metal-Organic Framework on Conductive Glass via Electrochemical Deposition.. *ChemistryOpen*, **2022**, 11, e202100295	2.3	0
29	Two metal-organic frameworks based on Sr and 1,2,4,5-tetra-kis-(4-carb-oxy-phen-yl)benzene linkers.. *Acta Crystallographica Section E: Crystallographic Communications*, **2021**, 77, 1243-1248	0.7	0
28	Phosphor-Free Electrically Driven White Light Emission from Nanometer-Thick Barium□Organic Framework Films. *ACS Applied Nano Materials*, **2021**, 4, 2395-2403	5.6	3
27	Thermally stable indium based metal□rganic frameworks with high dielectric permittivity. *Journal of Materials Chemistry C*, **2020**, 8, 9724-9733	7.1	5
26	Highly hydrophobic metal□rganic framework for self-protecting gate dielectrics. *Journal of Materials Chemistry A*, **2020**, 8, 11958-11965	13	11
25	Metal□Organic Frameworks for Electrocatalysis **2020**, 29-66		
24	Magnetic behaviour of 3D metal□rganic frameworks constructed via 1,2,4,5-benzenetetracarboxylate linker and 4f Ce(III) or 3d Fe(III) metal nodes. *Inorganic Chemistry Communication*, **2020**, 122, 108261	3.1	
23	Optimization of wheat-straw-extracted cellulose via response surface methodology and mechanical properties of its poly(lactide)-based biocomposites. *Polymer Composites*, **2020**, 41, 5355-5364	3	4
22	Polar Molecule Confinement Effects on Dielectric Modulations of Sr-Based Metal□Organic Frameworks. *ACS Applied Electronic Materials*, **2019**, 1, 836-844	4	6
21	Integration of a (-Cu-S-) plane in a metal-organic framework affords high electrical conductivity. *Nature Communications*, **2019**, 10, 1721	17.4	85
20	Identification of TIMING OF CAB EXPRESSION 1 as a temperature-sensitive negative regulator of tuberization in potato. *Journal of Experimental Botany*, **2019**, 70, 5703-5714	7	6
19	Unusual polymorphs of rac-3-phenylpyrrolidine-2,5-dione with Z? = 1, 2, and 3. *CrystEngComm*, **2019** , 21, 6819-6829	3.3	1
18	Zr-MOF/Polyaniline Composite Films with Exceptional Seebeck Coefficient for Thermoelectric Material Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 3400-3406	9.5	25
17	Single-Molecule-Based Electroluminescent Device as Future White Light Source. *ACS Applied Materials & Interfaces*, **2019**, 11, 4084-4092	9.5	7
16	Exceptional Low Dielectric Behavior of Chemically Robust, Guest-Free Co- and Mn-Based Coordination Polymers. *ChemElectroChem*, **2019**, 6, 623-626	4.3	3
15	Expanding the dimensions of metal□rganic framework research towards dielectrics. *Coordination Chemistry Reviews*, **2018**, 360, 77-91	23.2	33
14	Trapped Photons Induced Ultrahigh External Quantum Efficiency and Photoresponsivity in Hybrid Graphene/Metal-Organic Framework Broadband Wearable Photodetectors. *Advanced Functional Materials*, **2018**, 28, 1804802	15.6	38

13	Zn(II)-based metal–organic framework: an exceptionally thermally stable, guest-free low dielectric material. *Journal of Materials Chemistry C*, **2017**, 5, 1508-1513	7.1	29
12	High-κ Samarium-Based Metal-Organic Framework for Gate Dielectric Applications. *ACS Applied Materials & Interfaces*, **2017**, 9, 21872-21878	9.5	10
11	Semiconductor Metal-Organic Frameworks: Future Low-Bandgap Materials. *Advanced Materials*, **2017**, 29, 1605071	24	144
10	Electrically Driven White Light Emission from Intrinsic Metal-Organic Framework. *ACS Nano*, **2016**, 10, 8366-75	16.7	75
9	Continuous broadband emission from a metal–organic framework as a human-friendly white light source. *Journal of Materials Chemistry C*, **2016**, 4, 4728-4732	7.1	27
8	Low Dielectric Behavior of a Robust, Guest-Free Magnesium(II)–Organic Framework: A Potential Application of an Alkaline-Earth Metal Compound. *European Journal of Inorganic Chemistry*, **2015**, 2015, 1669-1674	2.3	16
7	Metal-organic frameworks for electronics: emerging second order nonlinear optical and dielectric materials. *Science and Technology of Advanced Materials*, **2015**, 16, 054204	7.1	35
6	Semiconductor Behavior of a Three-Dimensional Strontium-Based Metal-Organic Framework. *ACS Applied Materials & Interfaces*, **2015**, 7, 22767-74	9.5	59
5	Metal–Organic Frameworks: New Interlayer Dielectric Materials. *ChemElectroChem*, **2015**, 2, 786-788	4.3	51
4	Physiological, biochemical and molecular responses of the potato (Solanum tuberosum L.) plant to moderately elevated temperature. *Plant, Cell and Environment*, **2014**, 37, 439-50	8.4	114
3	Guest dependent dielectric properties of nickel(II)-based supramolecular networks. *CrystEngComm*, **2014**, 16, 6309-6315	3.3	23
2	Intrinsic low dielectric behaviour of a highly thermally stable Sr-based metal–organic framework for interlayer dielectric materials. *Journal of Materials Chemistry C*, **2014**, 2, 3762-3768	7.1	54
1	Anion-Controlled Dielectric Behavior of Homochiral Tryptophan-Based Metal–Organic Frameworks. *Crystal Growth and Design*, **2014**, 14, 1572-1579	3.5	46