

Pranav Utpalla

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Defect evolution in Eu ³⁺ , Nb ⁵⁺ doped and co-doped CeO ₂ : X-ray diffraction, positron annihilation lifetime and photoluminescence studies. Inorganic Chemistry Frontiers, 2019, 6, 2167-2177.	3.0	29
2	Investigating the Correlation of Segmental Dynamics, Free Volume Characteristics, and Ionic Conductivity in Poly(ethylene oxide)-Based Electrolyte: A Broadband Dielectric and Positron Annihilation Spectroscopy Study. Journal of Physical Chemistry C, 2020, 124, 4489-4501.	1.5	28
3	Role of free volumes and segmental dynamics on ion conductivity of PEO/LiTFSI solid polymer electrolytes filled with SiO ₂ nanoparticles: a positron annihilation and broadband dielectric spectroscopy study. Physical Chemistry Chemical Physics, 2021, 23, 8585-8597.	1.3	19
4	Investigation of the free volume characteristics of PEO based solid state polymer electrolyte by means of positron annihilation spectroscopy. Solid State Ionics, 2019, 339, 114990.	1.3	17
5	Free volume correlation with ac conductivity and thermo-mechanical properties of poly (ethylene Tj ETQq1 1 0.784314 rgBT/Overlo	2.6	17
6	Free volume structure at interphase region of poly (ethylene oxide)-Al ₂ O ₃ nanorods composites based solid polymer electrolyte and its direct correlation with Li ion conductivity. Solid State Ionics, 2022, 375, 115840.	1.3	16
7	Crystal Size-Dependent Pore Architecture and Surface Chemical Characteristics of Desolvated ZIF-8 Investigated Using Positron Annihilation Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 25291-25298.	1.5	15
8	Micrometer scale pore-interconnectivity in nanoporous ZIF-8 films with Zn enriched surface terminations. Microporous and Mesoporous Materials, 2020, 307, 110519.	2.2	14
9	Pore architecture evolution and OER catalytic activity of hollow Co/Zn Zeolitic Imidazolate Frameworks. Microporous and Mesoporous Materials, 2022, 335, 111814.	2.2	12
10	Fine tuning of pore architecture and morphology of stiffened Zeolitic Imidazolate Frameworks synthesized using fast current driven method and mixed ligand strategy. Microporous and Mesoporous Materials, 2021, 327, 111409.	2.2	10
11	Probing emission and defects in BaW _x Mo _{1-x} O ₄ solid solutions: achieving color tunable luminescence by W/Mo ratio and size manipulation. New Journal of Chemistry, 2020, 44, 10380-10389.	1.4	9
12	Pore interconnectivity and surface accessibility in stiffened mixed linker MOFs: An investigation using variable energy positron spectroscopy. Journal of Solid State Chemistry, 2022, 307, 122738.	1.4	5
13	Comparative performance analysis of InGaN/GaN multi-quantum-well light-emitting diodes with p- and n-type step-doped barriers. Journal of Computational Electronics, 2016, 15, 1040-1045.	1.3	2