

Marcel Dickmann

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Reversible Optical Writing and Data Storage in an Anthracene-Loaded Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2423-2427.	13.8	102
2	Bipyridine-based UiO-67 as novel filler in mixed-matrix membranes for CO ₂ -selective gas separation. <i>Journal of Membrane Science</i> , 2019, 576, 78-87.	8.2	75
3	Thin film composite membrane compaction in high-pressure reverse osmosis. <i>Journal of Membrane Science</i> , 2020, 610, 118268.	8.2	73
4	Solvent-Free Powder Synthesis and MOF-CVD Thin Films of the Large-Pore Metal-Organic Framework MAF-6. <i>Chemistry of Materials</i> , 2020, 32, 1784-1793.	6.7	62
5	Carrier Trapping by Vacancy-Type Defects in Mg-Implanted GaN Studied Using Monoenergetic Positron Beams. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700521.	1.5	60
6	Investigation of the ablation of zinc oxide thin films on Copper-indium-selenide layers by ps laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 387-393.	2.3	40
7	Porosimetry for Thin Films of Metal-Organic Frameworks: A Comparison of Positron Annihilation Lifetime Spectroscopy and Adsorption-Based Methods. <i>Advanced Materials</i> , 2021, 33, e2006993.	21.0	40
8	Annealing Behavior of Vacancy-Type Defects in Mg- and H-Implanted GaN Studied Using Monoenergetic Positron Beams. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900104.	1.5	27
9	Real-scale chlorination at pH4 of BW30 TFC membranes and their physicochemical characterization. <i>Journal of Membrane Science</i> , 2018, 551, 123-135.	8.2	24
10	Transferring bulk chemistry to interfacial synthesis of TFC-membranes to create chemically robust poly(epoxyether) films. <i>Journal of Membrane Science</i> , 2019, 582, 442-453.	8.2	24
11	Demonstration of the monolithic interconnection on CIS solar cells by picosecond laser structuring on 30 by 30 cm ² modules. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1291-1304.	8.1	22
12	Vacancy-type defects in Al ₂ O ₃ /GaN structure probed by monoenergetic positron beams. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	21
13	Template-Mediated Control over Polymorphism in the Vapor-Assisted Formation of Zeolitic Imidazolate Framework Powders and Films. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7553-7558.	13.8	20
14	Morphology and porous structure of standalone aromatic polyamide films as used in RO membranes – An exploration with SANS, PALS, and SEM. <i>Journal of Membrane Science</i> , 2019, 573, 167-176.	8.2	14
15	Aqueous Flow Reactor and Vapour-Assisted Synthesis of Aluminium Dicarboxylate Metal-Organic Frameworks with Tuneable Water Sorption Properties. <i>Chemistry - A European Journal</i> , 2020, 26, 10841-10848.	3.3	13
16	Chlorine-Resistant Epoxide-Based Membranes for Sustainable Water Desalination. <i>Environmental Science and Technology Letters</i> , 2021, 8, 818-824.	8.7	12
17	Morphology of Thin Film Composite Membranes Explored by Small-Angle Neutron Scattering and Positron-Annihilation Lifetime Spectroscopy. <i>Membranes</i> , 2020, 10, 48.	3.0	11
18	Positron Annihilation Studies on the Damp Heat Degradation of ZnO:Al Transparent Conductive Oxide Layers for CIGS Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1847-1851.	2.5	10

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19	Progress of the APEX experiment for creation of an electron-positron pair plasma. AIP Conference Proceedings, 2018, , .	0.4	9
20	Increasing Membrane Permeability by Increasing the Polymer Crystallinity: The Unique Case of Polythiophenes. Macromolecules, 2018, 51, 9943-9950.	4.8	8
21	Voids and vacancy-type defects in SiO ₂ /GaN structures probed by monoenergetic positron beams. Journal of Applied Physics, 2020, 127, .	2.5	7
22	Evolution and role of vacancy clusters at grain boundaries of ZnO:Al during accelerated degradation of Cu(In,Ga)Se ₂ solar cells revealed by positron annihilation. Physical Review Materials, 2018, 2, .	2.4	7
23	Radio frequency elevator for a pulsed positron beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 821, 40-43.	1.6	6
24	Four-dimensional positron age-momentum correlation. New Journal of Physics, 2016, 18, 113030.	2.9	5
25	Annealing behavior of open spaces in AlON films studied by monoenergetic positron beams. Applied Physics Letters, 2018, 112, .	3.3	5
26	Elucidating the Roles of Polyamide Layer Structural Properties in the Permeabilityâ€“Selectivity Tradeoff Governing Aqueous Separations. ACS ES&T Engineering, 2022, 2, 1857-1870.	7.6	4
27	Application of induced laser ablation with ultra short pulse lasers for high speed thin film solar cell processing. , 2010, , .		2
28	Characterization of Enzymatically Synthesized Titania Thin Films Using Positron Annihilation Spectroscopy Reveals Lowâ€“Cost Approach for Organic/Inorganic Photovoltaic Cells. Advanced Sustainable Systems, 2020, 4, 2000003.	5.3	2
29	Templateâ€“Mediated Control over Polymorphism in the Vaporâ€“Assisted Formation of Zeolitic Imidazolate Framework Powders and Films. Angewandte Chemie, 2021, 133, 7631-7636.	2.0	2