Jochen A Kerres

List of Publications by Year
in descending order

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43	2,725	279798	330143
papers	citations	23 h-index	37 g-index

44	44	44	2034
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of ionomer membranes for fuel cells. Journal of Membrane Science, 2001, 185, 3-27.	8.2	964
2	Synthesis and characterization of novel acidâ€“base polymer blends for application in membrane fuel cells. Solid State Ionics, 1999, 125, 243-249.	2.7	436
3	In-situ spin trap electron paramagnetic resonance study of fuel cell processes. Physical Chemistry Chemical Physics, 2004, 6, 2891.	2.8	139
4	Synergistically integrated phosphonated poly(pentafluorostyrene) for fuel cells. Nature Materials, 2021, 20, 370-377.	27.5	112
5	Novel phosphoric acid-doped PBI-blends as membranes for high-temperature PEM fuel cells. Journal of Materials Chemistry A, 2015, 3, 10864-10874.	10.3	89
6	Comparative investigation of novel PBI blend ionomer membranes from nonfluorinated and partially fluorinated poly arylene ethers. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 2311-2326.	2.1	70
7	Protonated phosphonic acid electrodes for high power heavy-duty vehicle fuel cells. Nature Energy, 2022, 7, 248-259.	39.5	65
8	Highly Phosphonated Polypentafluorostyrene. Macromolecules, 2011, 44, 6416-6423.	4.8	64
9	Cross-linked PBI-based high-temperature membranes: Stability, conductivity and fuel cell performance. International Journal of Hydrogen Energy, 2015, 40, 14723-14735.	7.1	62
10	The application of covalently cross-linked BrPPO as AEM in alkaline DMFC. Journal of Membrane Science, 2013, 425-426, 131-140.	8.2	55
11	Interplay between structure and properties in acid-base blend PBI-based membranes for HT-PEM fuel cells. Journal of Membrane Science, 2017, 535, 122-131.	8.2	54
12	Novel morpholinium-functionalized anion-exchange PBIâ€“polymer blends. Journal of Materials Chemistry A, 2015, 3, 1110-1120.	10.3	53
13	Novel multiblockâ€coâ€ionomers as potential polymer electrolyte membrane materials. Journal of Polymer Science Part A, 2007, 45, 5237-5255.	2.3	52
14	Stability of acid-excess acidâ€“base blend membranes in all-vanadium redox-flow batteries. Journal of Membrane Science, 2015, 476, 148-155.	8.2	46
15	Preparation and characterization of novel basic polysulfone polymers. Journal of Polymer Science Part A, 2001, 39, 2874-2888.	2.3	43
16	Novel imidazolium-functionalized anion-exchange polymer PBI blend membranes. Journal of Membrane Science, 2015, 476, 256-263.	8.2	41
17	Highly phosphonated polypentafluorostyrene: Characterization and blends with polybenzimidazole. European Polymer Journal, 2013, 49, 3977-3985.	5.4	35
18	Phosphonic acid functionalized poly(pentafluorostyrene) as polyelectrolyte membrane for fuel cell application. Journal of Power Sources, 2017, 343, 364-372.	7.8	30

#	Article	IF	Citations
19	Performances of Anion-Exchange Blend Membranes on Vanadium Redox Flow Batteries. Membranes, 2019, 9, 31.	3.0	30
20	Design Concepts for Aromatic Ionomers and Ionomer Membranes to be Applied to Fuel Cells and Electrolysis. Polymer Reviews, 2015, 55, 273-306.	10.9	28
21	On the effect of anion exchange ionomer binders in bipolar electrode membrane interface water electrolysis. Journal of Materials Chemistry A, 2021, 9, 14285-14295.	10.3	27
22	Sulfonated poly(pentafluorostyrene): Synthesis & characterization. Solid State Ionics, 2013, 252, 75-83.	2.7	26
23	Performance of Quaternized Polybenzimidazole-Cross-Linked Poly(vinylbenzyl chloride) Membranes in HT-PEMFCs. ACS Applied Materials & Interfaces, 2021, 13, 56584-56596.	8.0	25
24	Highly phosphonated polypentafluorostyrene blended with polybenzimidazole: Application in vanadium redox flow battery. Journal of Membrane Science, 2019, 570-571, 194-203.	8.2	24
25	Partially fluorinated sulfonated poly(arylene sulfone)s blended with polybenzimidazole. Journal of Polymer Science Part A, 2011, 49, 1919-1927.	2.3	22
26	Comparison of ionically and ionical-covalently cross-linked polyaromatic membranes for SO2 electrolysis. International Journal of Hydrogen Energy, 2014, 39, 28-40.	7.1	21
27	The 2â€Propanol Fuel Cell: A Review from the Perspective of a Hydrogen Energy Economy. Energy Technology, 2021, 9, 2100164.	3.8	19
28	Ionomer Membrane and MEA Development for DMFC. Separation Science and Technology, 2008, 43, 3955-3980.	2.5	14
29	Application of Novel Anion-Exchange Blend Membranes (AEBMs) to Vanadium Redox Flow Batteries. Membranes, 2018, 8, 33.	3.0	14
30	Sulfonated poly(arylene thioether phosphine oxide)s and poly(arylene ether phosphine oxide)s PBI-blend membranes and their performance in SO2 electrolysis. International Journal of Hydrogen Energy, 2016, 41, 4521-4537.	7.1	13
31	Novel Anion Exchange Membrane Based on Poly(Pentafluorostyrene) Substituted with Mercaptotetrazole Pendant Groups and Its Blend with Polybenzimidazole for Vanadium Redox Flow Battery Applications. Polymers, 2020, 12, 915.	4.5	13
32	Sulfonated poly(styrene)sâ€PBIOOÂ® blend membranes: Thermoâ€oxidative stability and conductivity. Journal of Applied Polymer Science, 2014, 131, .	2.6	12
33	Poly(vinylbenzylchloride) Based Anion-Exchange Blend Membranes (AEBMs): Influence of PEG Additive on Conductivity and Stability. Membranes, 2017, 7, 32.	3.0	8
34	Spatially and temporally resolved monitoring of doping polybenzimidazole membranes with phosphoric acid. Journal of Membrane Science, 2021, 625, 119145.	8.2	7
35	Hydrophobization of Tobacco Mosaic Virus to Control the Mineralization of Organic Templates. Nanomaterials, 2019, 9, 800.	4.1	5
36	Perfluoro-p-xylene as a New Unique Monomer for Highly Stable Arylene Main-Chain Ionomers Applicable to Low-T and High-T Fuel Cell Membranes. Polymers, 2015, 7, 1066-1087.	4.5	4

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37	H+-Conducting Aromatic Multiblock Copolymer and Blend Membranes and Their Application in PEM Electrolysis. Polymers, 2021, 13, 3467.	4.5	2
38	Sulfonated and Partially Fluorinated Poly(aryl) Multiblock-Co-Ionomer- and Blend Membranes As Proton Conductors for PEM Electrolysis. ECS Meeting Abstracts, 2020, MA2020-01, 1646-1646.	0.0	0
39	Phosphoric Acid Doping Levels in PBI-Based Membranes for the Application in High Temperature Fuel Cells: A Comprehensive Evaluation of Different Measurement Techniques. ECS Meeting Abstracts, 2020, MA2020-01, 2927-2927.	0.0	0
40	Stability of Ionic-Covalently Cross-Linked PBI-Blended Membranes for so2 electrolysis at Elevated Temperatures. ECS Meeting Abstracts, 2020, MA2020-01, 1605-1605.	0.0	0
41	Novel Sulfonated and Phosphonated Ionomers and Ionomer (blend) Membranes for Electrochemical Applications. ECS Meeting Abstracts, 2022, MA2022-01, 1413-1413.	0.0	0
42	Novel Anion-Exchange Blend Membranes Comprised of a Commercially Available & Water-Soluble Ionomer for All-Vanadium Redox Flow Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 1408-1408.	0.0	0
43	Quaternized Polybenzimidazole-Cross-Linked Poly(vinylbenzyl chloride) Membranes and Their Performance in HT-PEMFCs. ECS Meeting Abstracts, 2022, MA2022-01, 1411-1411.	0.0	0