

# Jochen A Kerres

## List of Publications by Year in descending order

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43  
papers

2,725  
citations

279798

23  
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330143

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44  
all docs

44  
docs citations

44  
times ranked

2034  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protonated phosphonic acid electrodes for high power heavy-duty vehicle fuel cells. Nature Energy, 2022, 7, 248-259.	39.5	65
2	Novel Sulfonated and Phosphonated Ionomers and Ionomer (blend) Membranes for Electrochemical Applications. ECS Meeting Abstracts, 2022, MA2022-01, 1413-1413.	0.0	0
3	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
4	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
5	Synergistically integrated phosphonated poly(pentafluorostyrene) for fuel cells. Nature Materials, 2021, 20, 370-377.	27.5	112
6	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
7	Spatially and temporally resolved monitoring of doping polybenzimidazole membranes with phosphoric acid. Journal of Membrane Science, 2021, 625, 119145.	8.2	7
8	The 2-Propanol Fuel Cell: A Review from the Perspective of a Hydrogen Energy Economy. Energy Technology, 2021, 9, 2100164.	3.8	19
9	H <sup>+</sup> -Conducting Aromatic Multiblock Copolymer and Blend Membranes and Their Application in PEM Electrolysis. Polymers, 2021, 13, 3467.	4.5	2
10	Performance of Quaternized Polybenzimidazole-Cross-Linked Poly(vinylbenzyl chloride) Membranes in HT-PEMFCs. ACS Applied Materials & Interfaces, 2021, 13, 56584-56596.	8.0	25
11	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
12	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
13	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
14	Stability of Ionic-Covalently Cross-Linked PBI-Blended Membranes for so <sub>2</sub> electrolysis at Elevated Temperatures. ECS Meeting Abstracts, 2020, MA2020-01, 1605-1605.	0.0	0
15	Hydrophobization of Tobacco Mosaic Virus to Control the Mineralization of Organic Templates. Nanomaterials, 2019, 9, 800.	4.1	5
16	Performances of Anion-Exchange Blend Membranes on Vanadium Redox Flow Batteries. Membranes, 2019, 9, 31.	3.0	30
17	Highly phosphonated polypentafluorostyrene blended with polybenzimidazole: Application in vanadium redox flow battery. Journal of Membrane Science, 2019, 570-571, 194-203.	8.2	24
18	Application of Novel Anion-Exchange Blend Membranes (AEBMs) to Vanadium Redox Flow Batteries. Membranes, 2018, 8, 33.	3.0	14

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19	Phosphonic acid functionalized poly(pentafluorostyrene) as polyelectrolyte membrane for fuel cell application. <i>Journal of Power Sources</i> , 2017, 343, 364-372.	7.8	30
20	Interplay between structure and properties in acid-base blend PBI-based membranes for HT-PEM fuel cells. <i>Journal of Membrane Science</i> , 2017, 535, 122-131.	8.2	54
21	Poly(vinylbenzylchloride) Based Anion-Exchange Blend Membranes (AEBMs): Influence of PEG Additive on Conductivity and Stability. <i>Membranes</i> , 2017, 7, 32.	3.0	8
22	Sulfonated poly(arylene thioether phosphine oxide)s and poly(arylene ether phosphine oxide)s PBI-blend membranes and their performance in SO <sub>2</sub> electrolysis. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 4521-4537.	7.1	13
23	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. <i>Polymers</i> , 2015, 7, 1066-1087.	4.5	4
24	Design Concepts for Aromatic Ionomers and Ionomer Membranes to be Applied to Fuel Cells and Electrolysis. <i>Polymer Reviews</i> , 2015, 55, 273-306.	10.9	28
25	Novel phosphoric acid-doped PBI-blends as membranes for high-temperature PEM fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10864-10874.	10.3	89
26	Cross-linked PBI-based high-temperature membranes: Stability, conductivity and fuel cell performance. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14723-14735.	7.1	62
27	Novel imidazolium-functionalized anion-exchange polymer PBI blend membranes. <i>Journal of Membrane Science</i> , 2015, 476, 256-263.	8.2	41
28	Novel morpholinium-functionalized anion-exchange PBI-polymer blends. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1110-1120.	10.3	53
29	Stability of acid-excess acid-base blend membranes in all-vanadium redox-flow batteries. <i>Journal of Membrane Science</i> , 2015, 476, 148-155.	8.2	46
30	Sulfonated poly(styrene)-PBI blend membranes: Thermo-oxidative stability and conductivity. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	12
31	Comparison of ionically and ionic-covalently cross-linked polyaromatic membranes for SO <sub>2</sub> electrolysis. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 28-40.	7.1	21
32	Highly phosphonated polypentafluorostyrene: Characterization and blends with polybenzimidazole. <i>European Polymer Journal</i> , 2013, 49, 3977-3985.	5.4	35
33	Sulfonated poly(pentafluorostyrene): Synthesis & characterization. <i>Solid State Ionics</i> , 2013, 252, 75-83.	2.7	26
34	The application of covalently cross-linked BrPPO as AEM in alkaline DMFC. <i>Journal of Membrane Science</i> , 2013, 425-426, 131-140.	8.2	55
35	Highly Phosphonated Polypentafluorostyrene. <i>Macromolecules</i> , 2011, 44, 6416-6423.	4.8	64
36	Partially fluorinated sulfonated poly(arylene sulfone)s blended with polybenzimidazole. <i>Journal of Polymer Science Part A</i> , 2011, 49, 1919-1927.	2.3	22

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37	Ionomer Membrane and MEA Development for DMFC. Separation Science and Technology, 2008, 43, 3955-3980.	2.5	14
38	Novel multiblock copolymer ionomers as potential polymer electrolyte membrane materials. Journal of Polymer Science Part A, 2007, 45, 5237-5255.	2.3	52
39	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
40	In-situ spin trap electron paramagnetic resonance study of fuel cell processes. Physical Chemistry Chemical Physics, 2004, 6, 2891.	2.8	139
41	Development of ionomer membranes for fuel cells. Journal of Membrane Science, 2001, 185, 3-27.	8.2	964
42	Preparation and characterization of novel basic polysulfone polymers. Journal of Polymer Science Part A, 2001, 39, 2874-2888.	2.3	43
43	Synthesis and characterization of novel acid-base polymer blends for application in membrane fuel cells. Solid State Ionics, 1999, 125, 243-249.	2.7	436