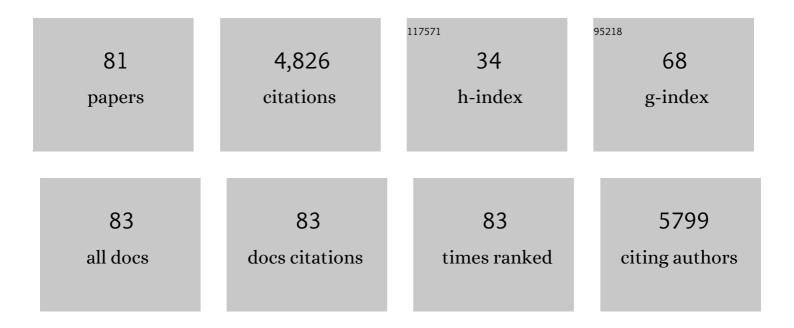
## Peter Heinz Pfromm

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Beyond fossil fuelâ $\in$ "driven nitrogen transformations. Science, 2018, 360, .	6.0	1,379
2	Bio-butanol vs. bio-ethanol: A technical and economic assessment for corn and switchgrass fermented by yeast or Clostridium acetobutylicum. Biomass and Bioenergy, 2010, 34, 515-524.	2.9	241
3	Challenges and Opportunities for Bio-oil Refining: A Review. Energy & Fuels, 2019, 33, 4683-4720.	2.5	240
4	Accelerated physical ageing of thin glassy polymer films: evidence from gas transport measurements. Polymer, 1995, 36, 2379-2387.	1.8	181
5	Chemical looping of metal nitride catalysts: low-pressure ammonia synthesis for energy storage. Chemical Science, 2015, 6, 3965-3974.	3.7	179
6	Towards sustainable agriculture: Fossil-free ammonia. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	174
7	Accelerated Physical Aging of Thin Poly[1-(trimethylsilyl)-1-propyne] Films. Macromolecules, 2000, 33, 3747-3751.	2.2	142
8	Solar thermochemical production of ammonia from water, air and sunlight: Thermodynamic and economic analyses. Energy, 2012, 42, 251-260.	4.5	119
9	Process control in cell culture technology using dielectric spectroscopy. Biotechnology Advances, 2011, 29, 391-401.	6.0	107
10	Chemical and spectroscopic characterization of marine dissolved organic matter isolated using coupled reverse osmosis–electrodialysis. Geochimica Et Cosmochimica Acta, 2009, 73, 4215-4231.	1.6	96
11	Combining reverse osmosis and electrodialysis for more complete recovery of dissolved organic matter from seawater. Separation and Purification Technology, 2007, 56, 383-387.	3.9	88
12	Rational design of metal nitride redox materials for solar-driven ammonia synthesis. Interface Focus, 2015, 5, 20140084.	1.5	88
13	Membrane-assisted enzymatic production of galactosyl-oligosaccharides from lactose in a continuous process. Journal of Membrane Science, 2004, 232, 85-91.	4.1	78
14	Gas transport properties of a series of highTg polynorbornenes with aliphatic pendant groups. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 797-803.	2.4	75
15	Coupling reverse osmosis with electrodialysis to isolate natural organic matter from fresh waters. Water Research, 2006, 40, 3385-3392.	5.3	75
16	Effect of water activity on the lipase catalyzed esterification of geraniol in ionic liquid [bmim]PF6. Biotechnology and Bioengineering, 2006, 93, 318-324.	1.7	72
17	Chromium as reactant for solar thermochemical synthesis of ammonia from steam, nitrogen, and biomass at atmospheric pressure. Solar Energy, 2011, 85, 2642-2654.	2.9	70
18	Gas transport through integral-asymmetric membranes: A comparison to isotropic film transport properties. Journal of Applied Polymer Science, 1993, 48, 2161-2171.	1.3	65

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19	Experimental evidence and theoretical analysis of physical aging in thin and thick amorphous glassy polymer films. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 2239-2251.	2.4	65
20	Sustainability of algae derived biodiesel: A mass balance approach. Bioresource Technology, 2011, 102, 1185-1193.	4.8	63
21	Synthesis and characterization of polyamide resins from soy-based dimer acids and different amides. Journal of Applied Polymer Science, 1998, 68, 305-314.	1.3	61
22	Electrodialysis for chloride removal from the chemical recovery cycle of a Kraft pulp mill. Journal of Membrane Science, 1998, 146, 249-261.	4.1	61
23	Effect of copolymer composition on the solubility and diffusivity of water and methanol in a series of polyether amides. Journal of Applied Polymer Science, 1997, 65, 1983-1993.	1.3	55
24	Partial Hydrogenation of Soybean Oil with Minimal <i>Trans</i> Fat Production Using a Ptâ€Decorated Polymeric Membrane Reactor. JAOCS, Journal of the American Oil Chemists' Society, 2009, 86, 93.	0.8	55
25	Aging of thin polyimide-ceramic and polycarbonate-ceramic composite membranes. Industrial & Engineering Chemistry Research, 1993, 32, 1921-1926.	1.8	50
26	An Ionicity Rationale to Design Solid phase Metal Nitride Reactants for Solar Ammonia Production. Journal of Physical Chemistry C, 2012, 116, 23243-23251.	1.5	50
27	Conformational changes and catalytic competency of hydrolases adsorbing on fumed silica nanoparticles: I. Tertiary structure. Colloids and Surfaces B: Biointerfaces, 2010, 79, 97-104.	2.5	46
28	Capacitance spectroscopy to characterize organic fouling of electrodialysis membranes. Journal of Membrane Science, 1999, 162, 213-218.	4.1	44
29	Combining reverse osmosis and pulsed electrical current electrodialysis for improved recovery of dissolved organic matter from seawater. Journal of Membrane Science, 2008, 323, 328-336.	4.1	42
30	Lipase-catalyzed synthesis of geranyl acetate inn-hexane with membrane-mediated water removal. Biotechnology and Bioengineering, 2001, 75, 676-681.	1.7	40
31	Size-Controlled Synthesis of Iron and Iron Oxide Nanoparticles by the Rapid Inductive Heating Method. ACS Omega, 2020, 5, 19853-19860.	1.6	40
32	Immobilization of Candida antarctica Lipase B on fumed silica. Process Biochemistry, 2009, 44, 62-69.	1.8	37
33	Thermodynamics of metal reactants for ammonia synthesis from steam, nitrogen and biomass at atmospheric pressure. AICHE Journal, 2012, 58, 3203-3213.	1.8	36
34	Economic feasibility of algal biodiesel under alternative public policies. Renewable Energy, 2014, 67, 136-142.	4.3	36
35	Thermochemical Synthesis of Ammonia and Syngas from Natural Gas at Atmospheric Pressure. Industrial & Engineering Chemistry Research, 2017, 56, 14014-14024.	1.8	35
36	Conformational changes and catalytic competency of hydrolases adsorbing on fumed silica nanoparticles: II. Secondary structure. Colloids and Surfaces B: Biointerfaces, 2010, 81, 1-10.	2.5	33

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37	Fe and Ni Dopants Facilitating Ammonia Synthesis on Mn <sub>4</sub> N and Mechanistic Insights from First-Principles Methods. Journal of Physical Chemistry C, 2018, 122, 6109-6116.	1.5	32
38	Effects of temperature and shear force on infectivity of the baculovirus Autographa californica M nucleopolyhedrovirus. Journal of Virological Methods, 2008, 153, 90-96.	1.0	26
39	Partial hydrogenation of soybean oil using metal-decorated integral-asymmetric polymer membranes: Effects of morphology and membrane properties. Journal of Membrane Science, 2010, 348, 99-108.	4.1	24
40	Aqueous phase hydrogenation of levulinic acid using a porous catalytic membrane reactor. Catalysis Today, 2016, 268, 19-28.	2.2	24
41	Immobilization of Enzymes on Fumed Silica Nanoparticles for Applications in Nonaqueous Media. Methods in Molecular Biology, 2011, 743, 147-160.	0.4	23
42	Enantioselective transesterification by Candida antarctica Lipase B immobilized on fumed silica. Journal of Biotechnology, 2010, 150, 80-86.	1.9	22
43	Manipulating the Geometric and Electronic Structures of Manganese Nitrides for Ammonia Synthesis. ChemCatChem, 2020, 12, 2233-2244.	1.8	19
44	Activation of N <sub>2</sub> on Manganese Nitride-Supported Ni <sub>3</sub> and Fe <sub>3</sub> Clusters and Relevance to Ammonia Formation. Journal of Physical Chemistry Letters, 2021, 12, 6535-6542.	2.1	19
45	Electrodialysis Field Test for Selective Chloride Removal from the Chemical Recovery Cycle of a Kraft Pulp Mill. Industrial & Engineering Chemistry Research, 1998, 37, 4761-4767.	1.8	18
46	Activation of subtilisin Carlsberg in hexane by lyophilization in the presence of fumed silica. Journal of Molecular Catalysis B: Enzymatic, 2005, 34, 18-24.	1.8	17
47	Chemical Looping of Manganese to Synthesize Ammonia at Atmospheric Pressure: Sodium as Promoter. Chemical Engineering and Technology, 2020, 43, 2126-2133.	0.9	16
48	Low Effluent Processing in the Pulp and Paper Industry: Electrodialysis for Continuous Selective Chloride Removal. Separation Science and Technology, 1997, 32, 2913-2926.	1.3	15
49	Concentration of the baculovirus Autographa californica M nucleopolyhedrovirus (AcMNPV) by ultrafiltration. Desalination, 2010, 250, 1125-1127.	4.0	15
50	Title is missing!. Journal of Applied Electrochemistry, 2002, 32, 415-424.	1.5	13
51	Development of an easily deinkable copy toner using soy-based copolyamides. Journal of Applied Polymer Science, 1999, 74, 1563-1570.	1.3	12
52	Purification of the baculovirus Autographa californica M nucleopolyhedrovirus by tangential flow ultrafiltration. Desalination, 2009, 245, 694-700.	4.0	12
53	Overcoming massâ€transfer limitations in partial hydrogenation of soybean oil using metalâ€decorated polymeric membranes. AICHE Journal, 2011, 57, 2450-2457.	1.8	12
54	Reducing the energy demand of cornâ€based fuel ethanol through salt extractive distillation enabled by electrodialysis. AICHE Journal, 2012, 58, 163-172.	1.8	12

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55	Reducing the Energy Demand of Cellulosic Ethanol through Salt Extractive Distillation Enabled by Electrodialysis. Separation Science and Technology, 2013, 48, 1518-1528.	1.3	12
56	Novel DyP from the basidiomycete Pleurotus sapidus: substrate screening and kinetics. Biocatalysis, 2018, 4, 1-13.	2.3	12
57	Application of dimer acid-based polyamide for xerographic toners for textiles printing. Journal of Applied Polymer Science, 2001, 81, 2399-2407.	1.3	10
58	Real time measurement and control of thermodynamic water activities for enzymatic catalysis in hexane. Journal of Biotechnology, 2005, 119, 147-154.	1.9	10
59	The Impact of Physical Aging of Amorphous Glassy Polymers on Gas Separation Membranes. , 2006, , 293-306.		10
60	Hydrolases on silica surfaces: Coverage-activity–molecular property relationships revealed. Process Biochemistry, 2014, 49, 830-839.	1.8	10
61	Kinetic and equilibrium sorption of organic liquids and vapors in Matrimid. Journal of Membrane Science, 2016, 512, 29-37.	4.1	10
62	Composite catalytic tubular membranes for selective hydrogenation in three-phase systems. Catalysis Today, 2016, 268, 12-18.	2.2	10
63	Studies on toners for textile xerography. Journal of Electrostatics, 1998, 43, 249-266.	1.0	9
64	Title is missing!. Journal of Applied Electrochemistry, 2002, 32, 725-733.	1.5	9
65	Activating dinitrogen for chemical looping ammonia synthesis: nitridation of manganese. Journal of Materials Science, 2021, 56, 12584-12595.	1.7	7
66	Activating dinitrogen for chemical looping ammonia Synthesis: Mn nitride layer growth modeling. Chemical Engineering Science, 2022, 252, 117287.	1.9	7
67	Green ammonia production-enabled demand flexibility in agricultural community microgrids with distributed renewables. Sustainable Energy, Grids and Networks, 2022, 31, 100736.	2.3	7
68	Xerographic printing of textiles: Polymeric toners and their performance. Journal of Applied Polymer Science, 2000, 78, 2425-2434.	1.3	6
69	Adaptation of Mycobacterium smegmatis to an Industrial Scale Medium and Isolation of the Mycobacterial PorinMspA. Open Microbiology Journal, 2013, 7, 92-98.	0.2	6
70	Sorption and transport of sulfur dioxide in polysulfone. Macromolecules, 1993, 26, 6141-6142.	2.2	5
71	Electrodialysis for bleach effluent recycling in kraft pulp production: Simultaneous control of chloride and other nonâ€process elements. Canadian Journal of Chemical Engineering, 1999, 77, 1231-1238.	0.9	5
72	Membrane permeation based sensing for dissolved water in organic micro-aqueous media. Journal of Membrane Science, 2004, 239, 213-217.	4.1	5

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73	Recycling Kraft Pulping Chemicals with Molten Salt Electrolysis. Journal of the Electrochemical Society, 2002, 149, D125.	1.3	4
74	Rapid synthesis of nanocrystalline magnesium chromite and ferrite ceramics with concentrated sunlight. Thermochimica Acta, 2014, 582, 10-16.	1.2	3
75	Facile one-pot synthesis of γ-Fe <sub>2</sub> O <sub>3</sub> nanoparticles by inductive heating. Materials Advances, 2021, 2, 5616-5621.	2.6	3
76	Analysis of Atomic Force Microscopy Phase Data To Dynamically Detect Adsorbed Hydrogen under Ambient Conditions. Langmuir, 2014, 30, 11906-11912.	1.6	2
77	Effect of vapor phase ethylenediamine crosslinking of matrimid on alcohol vapor sorption and diffusion. Journal of Applied Polymer Science, 2017, 134, 44771.	1.3	2
78	Selective Removal of Methanol from Humid Air Streams Using a Water-Vapor-Purged Membrane Separator. Industrial & Engineering Chemistry Research, 2001, 40, 2685-2692.	1.8	1
79	Catalytic properties ofCandida antarcticalipase B clusters solubilized in hexane. Biocatalysis and Biotransformation, 2009, 27, 152-158.	1.1	1
80	Isolation of natural organic matter from fresh waters using reverse osmosis and electrodialysis. Diqiu Huaxue, 2006, 25, 268-268.	0.5	0
81	Atomic force phase imaging for dynamic detection of adsorbed hydrogen on a catalytic palladium surface under liquid. Ultramicroscopy, 2017, 181, 42-49.	0.8	0