

# Emanuela Sgreccia

## List of Publications by Year in descending order

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38  
papers

1,090  
citations

393982

19  
h-index

395343

33  
g-index

39  
all docs

39  
docs citations

39  
times ranked

917  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Temperature-Promoted and Solvent-Assisted Cross-Linking in Sulfonated Poly(ether ether) Tj ETQq1 1 0,784314 rgBT /Ovele	1.2	104
2	Thermogravimetric analysis of SPEEK membranes: Thermal stability, degree of sulfonation and cross-linking reaction. Journal of Analytical and Applied Pyrolysis, 2011, 92, 361-365.	2.6	92
3	High ionic exchange capacity polyphenylsulfone (SPPSU) and polyethersulfone (SPES) cross-linked by annealing treatment: Thermal stability, hydration level and mechanical properties. Journal of Membrane Science, 2010, 354, 134-141.	4.1	85
4	Mechanical properties of proton-conducting sulfonated aromatic polymer membranes: Stress-strain tests and dynamical analysis. Journal of Power Sources, 2010, 195, 7770-7775.	4.0	84
5	Composite polymer electrolytes of sulfonated poly-ether-ether-ketone (SPEEK) with organically functionalized TiO <sub>2</sub> . Journal of Membrane Science, 2011, 369, 536-544.	4.1	78
6	Composite Proton-Conducting Hybrid Polymers: Water Sorption Isotherms and Mechanical Properties of Blends of Sulfonated PEEK and Substituted PPSU. Chemistry of Materials, 2008, 20, 4327-4334.	3.2	72
7	Cross-Linking of Sulfonated Poly(ether ether ketone) by Thermal Treatment: How Does the Reaction Occur?. Fuel Cells, 2013, 13, 107-117.	1.5	56
8	High performance sulfonated aromatic ionomers by solvothermal macromolecular synthesis. International Journal of Hydrogen Energy, 2012, 37, 8672-8680.	3.8	41
9	Hybrid composite membranes based on SPEEK and functionalized PPSU for PEM fuel cells. International Journal of Hydrogen Energy, 2011, 36, 8063-8069.	3.8	39
10	Water Activity Coefficient and Proton Mobility in Hydrated Acidic Polymers. Journal of the Electrochemical Society, 2011, 158, B159.	1.3	38
11	Self-assembled nanocomposite organic-inorganic proton conducting sulfonated poly-ether-ether-ketone (SPEEK)-based membranes: Optimized mechanical, thermal and electrical properties. Journal of Power Sources, 2009, 192, 353-359.	4.0	36
12	Alkaline stability of model anion exchange membranes based on poly(phenylene oxide) (PPO) with grafted quaternary ammonium groups: Influence of the functionalization route. Polymer, 2019, 185, 121931.	1.8	36
13	Effective ion mobility in anion exchange ionomers: Relations with hydration, porosity, tortuosity, and percolation. Journal of Membrane Science, 2021, 617, 118622.	4.1	33
14	Thermal crosslinked and nanodiamond reinforced SPEEK composite membrane for PEMFC. International Journal of Hydrogen Energy, 2013, 38, 3346-3351.	3.8	30
15	New approach for the evaluation of membranes transport properties for polymer electrolyte membrane fuel cells. Journal of Power Sources, 2012, 205, 222-230.	4.0	29
16	Mechanical properties of hybrid proton conducting polymer blends based on sulfonated polyetheretherketones. Journal of Power Sources, 2008, 178, 667-670.	4.0	27
17	Tuneable properties of carbon quantum dots by different synthetic methods. Journal of Nanostructure in Chemistry, 2022, 12, 565-580.	5.3	27
18	Synthetic strategies for the preparation of proton-conducting hybrid polymers based on PEEK and PPSU for PEM fuel cells. Comptes Rendus Chimie, 2008, 11, 1074-1081.	0.2	26

#	ARTICLE	IF	CITATIONS
19	Sorption and condensation phenomena of volatile compounds on solid-state metalloporphyrin films. <i>Sensors and Actuators B: Chemical</i> , 2007, 124, 260-268.	4.0	22
20	Double layer sensors mimic olfactive perception: A case study. <i>Thin Solid Films</i> , 2008, 516, 7857-7865.	0.8	15
21	Chemomechanics of acidic ionomers: Hydration isotherms and physical model. <i>Journal of Power Sources</i> , 2014, 267, 692-699.	4.0	14
22	LoLiPEM: Long life proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1921-1934.	3.8	12
23	Model Long Side-Chain PPO-Based Anion Exchange Ionomers: Properties and Alkaline Stability. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1309-1316.	1.5	12
24	Anion Exchange Membranes with 1D, 2D and 3D Fillers: A Review. <i>Polymers</i> , 2021, 13, 3887.	2.0	12
25	Silica Containing Composite Anion Exchange Membranes by Solâ€“Gel Synthesis: A Short Review. <i>Polymers</i> , 2021, 13, 1874.	2.0	10
26	Stimuli-responsive amphoteric ion exchange polymers bearing carboxylic and amine groups grafted to a cross-linkable silica network. <i>European Polymer Journal</i> , 2019, 112, 255-262.	2.6	9
27	A Short Overview of Biological Fuel Cells. <i>Membranes</i> , 2022, 12, 427.	1.4	8
28	Potentials and limitations of a porphyrin-based AT-cut resonator for sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 411-417.	4.0	7
29	Properties and Alkaline Stability of Composite Anion Conducting Ionomers Based on Poly(phenylene Tj ETQq1 1 0.784314 rgBT /Ove 2917-2924.	1.7	7
30	Stability of Proton Exchange Membranes in Phosphate Buffer for Enzymatic Fuel Cell Application: Hydration, Conductivity and Mechanical Properties. <i>Polymers</i> , 2021, 13, 475.	2.0	7
31	Stabilized Sulfonated Aromatic Polymers by in situ Solvothermal Cross-Linking. <i>Frontiers in Energy Research</i> , 2014, 2, .	1.2	6
32	Influence of the position of ionic groups in amphoteric polyelectrolytes on hydration and ionic conduction: Side chain vs main chain. <i>European Polymer Journal</i> , 2019, 119, 45-51.	2.6	5
33	Nanostructured, Metal-Free Electrodes for the Oxygen Reduction Reaction Containing Nitrogen-Doped Carbon Quantum Dots and a Hydroxide Ion-Conducting Ionomer. <i>Molecules</i> , 2022, 27, 1832.	1.7	4
34	Ionomer Thinâ€“Films by Electrochemical Synthesis: Bipolar and Ampholytic Membranes. <i>ChemElectroChem</i> , 2021, 8, 1493-1499.	1.7	3
35	Nanocomposite Anion Exchange Membranes with a Conductive Semi-Interpenetrating Silica Network. <i>Membranes</i> , 2021, 11, 260.	1.4	3
36	Cross-linked Aromatic Polymers for High Durability PEM Membranes: Materials and Methods. <i>ECS Transactions</i> , 2013, 50, 1021-1030.	0.3	0

#	ARTICLE	IF	CITATIONS
37	CHEMICAL SENSORS BASED ON TSMRS: EFFECT OF COATING THICKNESS. , 2004, , .		0
38	Nanometric Building Blocks in Composite Ionic Conductors. , 0, , .		0