

# StÃ©phanie Roualdes

## List of Publications by Year in descending order

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64  
papers

1,702  
citations

236912

25  
h-index

302107

39  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1972  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of plasma sputtered fuel cell electrodes with ultra-low Pt loadings. <i>Electrochemistry Communications</i> , 2009, 11, 859-861.	4.7	99
2	Mesoporous ZnFe <sub>2</sub> O <sub>4</sub> @TiO <sub>2</sub> Nanofibers Prepared by Electrospinning Coupled to PECVD as Highly Performing Photocatalytic Materials. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24669-24677.	3.1	88
3	New Fluorinated Polymers Bearing Pendant Phosphonic Acid Groups. Proton Conducting Membranes for Fuel Cell. <i>Macromolecules</i> , 2010, 43, 5269-5276.	4.8	83
4	Facile fabrication of NiTiO <sub>3</sub> /graphene nanocomposites for photocatalytic hydrogen generation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 365, 86-93.	3.9	74
5	BN/GdxTi(1-x)O(4-x)/2 nanofibers for enhanced photocatalytic hydrogen production under visible light. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 76-86.	20.2	73
6	Atomic layer deposition of Pd nanoparticles on self-supported carbon-Ni/NiO-Pd nanofiber electrodes for electrochemical hydrogen and oxygen evolution reactions. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 286-297.	9.4	68
7	Gas diffusion and sorption properties of polysiloxane membranes prepared by PECVD. <i>Journal of Membrane Science</i> , 2002, 198, 299-310.	8.2	58
8	Separation of H <sup>+</sup> /Cu <sup>2+</sup> cations by electrodialysis using modified proton conducting membranes. <i>Journal of Membrane Science</i> , 2003, 216, 13-25.	8.2	55
9	Antibacterial properties of Ag@TiO <sub>2</sub> composite sol-gel coatings. <i>RSC Advances</i> , 2015, 5, 59070-59081.	3.6	50
10	Enhancement of calcium copper titanium oxide photoelectrochemical performance using boron nitride nanosheets. <i>Chemical Engineering Journal</i> , 2020, 389, 124326.	12.7	48
11	Sulfonated polystyrene-type plasma-polymerized membranes for miniature direct methanol fuel cells. <i>Journal of Power Sources</i> , 2006, 158, 1270-1281.	7.8	47
12	Preparation of solid alkaline fuel cell binders based on fluorinated poly(diallyldimethylammonium) Tj ETQqO O O rgBT /Overlock 10 Tf 50 . of <i>Polymer Science Part A</i> , 2009, 47, 2043-2058.	2.3	47
13	Coating porous membranes with a photocatalyst: Comparison of LbL self-assembly and plasma-enhanced CVD techniques. <i>Journal of Membrane Science</i> , 2016, 514, 340-349.	8.2	47
14	Coaxial nanofibers of nickel/gadolinium oxide/nickel oxide as highly effective electrocatalysts for hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 457-466.	9.4	47
15	<sup>29</sup> Si NMR and Si <sub>2p</sub> XPS correlation in polysiloxane membranes prepared by plasma enhanced chemical vapor deposition. <i>Separation and Purification Technology</i> , 2001, 25, 391-397.	7.9	44
16	Simultaneous hydrogen and oxygen evolution reactions using free-standing nitrogen-doped-carbon@Co/CoO <sub>x</sub> nanofiber electrodes decorated with palladium nanoparticles. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17724-17739.	10.3	41
17	Solid polymer fuel cell synthesis by low pressure plasmas: a short review. <i>EPJ Applied Physics</i> , 2006, 34, 151-156.	0.7	41
18	Plasma-Polymerised Proton Conductive Membranes for a Miniaturised PEMFC. <i>Fuel Cells</i> , 2005, 5, 277-286.	2.4	40

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19	Surface investigation of plasma HMDSO membranes post-treated by CF <sub>4</sub> /Ar plasma. <i>Applied Surface Science</i> , 2002, 187, 326-338.	6.1	39
20	Gas separation properties of organosilicon plasma polymerized membranes. <i>AIChE Journal</i> , 1999, 45, 1566-1575.	3.6	38
21	Highly textured boron/nitrogen co-doped TiO <sub>2</sub> with honeycomb structure showing enhanced visible-light photoelectrocatalytic activity. <i>Applied Surface Science</i> , 2020, 505, 144419.	6.1	38
22	Functionalization of MCM-41 with titanium oxynitride deposited via PECVD for enhanced removal of methylene blue. <i>Journal of Molecular Liquids</i> , 2019, 274, 505-515.	4.9	37
23	Design of Ni/NiO@TiO <sub>2</sub> /rGO nanocomposites on carbon cloth conductors via PECVD for electrocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 32000-32011.	7.1	36
24	Membranes produced by plasma enhanced chemical vapor deposition technique for low temperature fuel cell applications. <i>Journal of Power Sources</i> , 2010, 195, 232-238.	7.8	34
25	Segregation of copper oxide on calcium copper titanate surface induced by Graphene Oxide for Water splitting applications. <i>Applied Surface Science</i> , 2020, 516, 146051.	6.1	31
26	Plasma-grafted PVDF polymers as anion exchange membranes for the electrotransport of Cr(VI). <i>Desalination</i> , 2002, 146, 273-278.	8.2	22
27	Ion-Exchange Plasma Membranes for Fuel Cells on a Micrometer Scale. <i>Chemical Vapor Deposition</i> , 2007, 13, 361-369.	1.3	22
28	Microporous Silica Membrane: Basic Principles and Recent Advances. <i>Membrane Science and Technology</i> , 2008, 13, 33-79.	0.5	22
29	Water Transport Properties of Plasma-Modified Commercial Anion-Exchange Membrane for Solid Alkaline Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8510-8522.	3.1	22
30	Organic/inorganic thin films deposited from diethoxydimethylsilane by plasma enhanced chemical vapor deposition. <i>Journal of Non-Crystalline Solids</i> , 1999, 248, 235-246.	3.1	21
31	Optimization of N-doped TiO <sub>2</sub> multifunctional thin layers by low frequency PECVD process. <i>Journal of the European Ceramic Society</i> , 2017, 37, 5289-5303.	5.7	20
32	TiO <sub>2</sub> nanotree films for the production of green H <sub>2</sub> by solar water splitting: From microstructural and optical characteristics to the photocatalytic properties. <i>Applied Surface Science</i> , 2019, 494, 1127-1137.	6.1	20
33	New photocatalytic contactors obtained by PECVD deposition of TiO <sub>2</sub> thin layers on the surface of macroporous supports. <i>European Physical Journal: Special Topics</i> , 2015, 224, 1871-1882.	2.6	19
34	Nanocrystalline TiO <sub>2</sub> thin film prepared by low-temperature plasma-enhanced chemical vapor deposition for photocatalytic applications. <i>Thin Solid Films</i> , 2015, 589, 770-777.	1.8	18
35	Superior efficiency of BN/Ce <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanofibers for photocatalytic hydrogen generation reactions. <i>Applied Surface Science</i> , 2022, 594, 153438.	6.1	18
36	Mass density determination of thin organosilicon films by X-ray reflectometry. <i>Applied Surface Science</i> , 2001, 173, 115-121.	6.1	16

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37	Plasma-polymerized thin films as new membranes for miniature solid alkaline fuel cells. <i>Desalination</i> , 2006, 199, 286-288.	8.2	16
38	Plasma Membranes Modified by Plasma Treatment or Deposition as Solid Electrolytes for Potential Application in Solid Alkaline Fuel Cells. <i>Membranes</i> , 2012, 2, 529-552.	3.0	14
39	Comparative performance of various plasma polysiloxane films for the pervaporative recovery of organics from aqueous streams. <i>Journal of Membrane Science</i> , 2003, 211, 113-126.	8.2	13
40	PECVD process for the preparation of proton conducting membranes for micro fuel cells. Impedance probe measurements and material characterizations. <i>EPJ Applied Physics</i> , 2008, 42, 9-15.	0.7	13
41	Hybrid plasma polymerized membranes from organosilicon precursors for gas separation. <i>European Physical Journal Special Topics</i> , 1999, 09, Pr8-1147-Pr8-1154.	0.2	11
42	In-Situ Mass Spectrometry Analyses of the Fragmentation of Linear and Cyclic Siloxanes in a Glow Discharge Compared with Ex-Situ FTIR Analyses of the Deposits. <i>Chemical Vapor Deposition</i> , 2002, 8, 155.	1.3	11
43	Plasma-polymerized phosphonic acid-based membranes for fuel cell. <i>Journal of Membrane Science</i> , 2014, 461, 1-9.	8.2	10
44	Comparative study of bulk and surface compositions of plasma polymerized organosilicon thin films. <i>Surfaces and Interfaces</i> , 2021, 25, 101256.	3.0	10
45	Optimization of the molecular sieving properties of amorphous SiCN:H hydrogen selective membranes prepared by PECVD. <i>European Physical Journal: Special Topics</i> , 2015, 224, 1935-1943.	2.6	9
46	Microwave PECVD Silicon Carbonitride Thin Films: A FTIR and Ellipsoporosimetry Study. <i>Plasma Processes and Polymers</i> , 2016, 13, 258-265.	3.0	9
47	Phosphonic acid-based membranes as proton conductors prepared by a pulsed plasma enhanced chemical vapor deposition technique. <i>Thin Solid Films</i> , 2018, 660, 506-515.	1.8	8
48	Effect of plasma power on the semiconducting behavior of low-frequency PECVD TiO <sub>2</sub> and nitrogen-doped TiO <sub>2</sub> anodic thin coatings: photo-electrochemical studies in a single compartment cell for hydrogen generation by solar water splitting. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 135-150.	2.9	8
49	Experimental design and modelling in the investigation of PECVD parameters effects on the structural and gas transport properties of plasma polysiloxane membranes. <i>Journal of Membrane Science</i> , 2004, 230, 39-48.	8.2	7
50	Chemical Investigation on Various Aromatic Compounds Polymerization in Low Pressure Helium Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2014, 34, 1219-1232.	2.4	7
51	Vibrational frequencies of hydrogenated silicon carbonitride: A DFT study. <i>Surface and Coatings Technology</i> , 2017, 325, 437-444.	4.8	6
52	X-ray Reflectometry Characterization of Plasma Polymer Films Synthesized from Triallylamine: Density and Swelling in Water. <i>Plasma Processes and Polymers</i> , 2013, 10, 517-525.	3.0	4
53	Plasma-treated phosphonic acid-based membranes for fuel cell. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15593-15604.	7.1	4
54	Plasma processes for membranes modification or manufacture. <i>Annales De Chimie: Science Des Materiaux</i> , 2007, 32, 141-158.	0.4	4

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55	Solid Polymer Fuel Cell synthesis by low pressure plasmas: a short review. EPJ Applied Physics, 2008, 43, 137-137.	0.7	3
56	An application of carbon nanotubes for integrated circuit interconnects. , 2008, , .		3
57	Sorption and permeation of water through Plasma Enhanced Chemical Vapour Deposited phosphonic acid-based membranes. Thin Solid Films, 2020, 700, 137918.	1.8	2
58	Modelling of gas permeability for membranes prepared by PECVD. Journal of Membrane Science, 2005, 262, 42-48.	8.2	1
59	Original Polystyrene Nanoballs Grown by Plasma Polymerization. IEEE Transactions on Plasma Science, 2011, 39, 2778-2779.	1.3	1
60	XPS and XPS valence band characterizations of amorphous or polymeric silicon based thin films prepared by PACVD from organosilicon monomers. European Physical Journal Special Topics, 1999, 09, Pr8-1059-Pr8-1068.	0.2	0
61	[P1.035] New Copolymers for Solid Alkaline Fuel Cell Membranes. Procedia Engineering, 2012, 44, 753-755.	1.2	0
62	Innovative Plasma Polymerized Membranes based on Phosphonic Acid Groups for Fuel Cell. Procedia Engineering, 2012, 44, 701-703.	1.2	0
63	Plasma Polymerization. , 2015, , 1-3.		0
64	Plasma Polymerized Membrane. , 2015, , 1-2.		0