

# Anna Donnadio

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84  
papers

2,171  
citations

28  
h-index

42  
g-index

87  
ext. papers

2,485  
ext. citations

6.3  
avg, IF

4.89  
L-index

#	Paper	IF	Citations
84	Active electrospun nanofibers as an effective reinforcement for highly conducting and durable proton exchange membranes. <i>Journal of Membrane Science</i> , <b>2021</b> , 622, 119037	9.6	8
83	Bioinspired Reactive Interfaces Based on Layered Double Hydroxides-Zn Rich Hydroxyapatite with Antibacterial Activity. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 1361-1373	5.5	3
82	Ionic and covalent crosslinking in chitosan-succinic acid membranes: Effect on physicochemical properties. <i>Carbohydrate Polymers</i> , <b>2021</b> , 251, 117106	10.3	10
81	Synthesis and characterization of 1,2,4-triazolo[1,5-a]pyrimidine-2-carboxamide-based compounds targeting the PA-PB1 interface of influenza A virus polymerase. <i>European Journal of Medicinal Chemistry</i> , <b>2021</b> , 209, 112944	6.8	4
80	PVC grafted zinc oxide nanoparticles as an inhospitable surface to microbes. <i>Materials Science and Engineering C</i> , <b>2021</b> , 128, 112290	8.3	1
79	Biocompatible alginate silica supported silver nanoparticles composite films for wound dressing with antibiofilm activity. <i>Materials Science and Engineering C</i> , <b>2020</b> , 112, 110863	8.3	36
78	A new challenge for nanocrystalline Zirconium phosphate: reaction with a diepoxyalkane. <i>Dalton Transactions</i> , <b>2020</b> , 49, 3869-3876	4.3	2
77	Use of calcium carbonate as an excipient for release of poorly water soluble drugs: The case of carbamazepine. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 589, 119860	6.5	2
76	Layered double hydroxides intercalated with fluoride and methacrylate anions as multifunctional filler of acrylic resins for dental composites. <i>Applied Clay Science</i> , <b>2020</b> , 197, 105796	5.2	2
75	Investigating the effect of positional isomerism on the assembly of zirconium phosphonates based on tritopic linkers. <i>Dalton Transactions</i> , <b>2020</b> , 49, 3662-3666	4.3	5
74	Effect of Chemically Engineered Au/Ag Nanorods on the Optical and Mechanical Properties of Keratin Based Films. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 158	5	5
73	Halloysite-Doped Zinc Oxide for Enhanced Sunscreening Performance. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 6575-6584	5.6	16
72	Zirconium Carboxyaminophosphonate Nanosheets as Support for Ag Nanoparticles. <i>Materials</i> , <b>2019</b> , 12,	3.5	3
71	De-Ethylation and Cleavage of Rhodamine B by a Zirconium Phosphate/Silver Bromide Composite Photocatalyst. <i>Catalysts</i> , <b>2019</b> , 9, 3	4	20
70	Polydopamine Nanoparticle-Coated Polysulfone Porous Granules as Adsorbents for Water Remediation. <i>ACS Omega</i> , <b>2019</b> , 4, 4839-4847	3.9	15
69	Nano-hybrid electrospun non-woven mats made of wool keratin and hydrotalcites as potential bio-active wound dressings. <i>Nanoscale</i> , <b>2019</b> , 11, 6422-6430	7.7	23
68	Tumor Targeting by Peptide-Decorated Gold Nanoparticles. <i>Molecular Pharmaceutics</i> , <b>2019</b> , 16, 2430-2446	4.6	22

67	Nanostructured zinc oxide on silica surface: Preparation, physicochemical characterization and antimicrobial activity. <i>Materials Science and Engineering C</i> , <b>2019</b> , 104, 109977	8.3	13
66	Antibacterial Properties of a Novel Zirconium Phosphate-Glycinediphosphonate Loaded with Either Zinc or Silver. <i>Materials</i> , <b>2019</b> , 12,	3.5	5
65	Keratin Film as Natural and Eco-Friendly Support for Organic Optoelectronic Devices. <i>Advanced Sustainable Systems</i> , <b>2019</b> , 3, 1900080	5.9	10
64	AgCl-ZnAl Layered Double Hydroxides as Catalysts with Enhanced Photodegradation and Antibacterial Activities. <i>Inorganics</i> , <b>2019</b> , 7, 120	2.9	5
63	On the evolution of proton conductivity of Aquivion membranes loaded with CeO <sub>2</sub> based nanofillers: Effect of temperature and relative humidity. <i>Journal of Membrane Science</i> , <b>2019</b> , 574, 17-23	9.6	6
62	Water-Based Synthesis and Enhanced CO <sub>2</sub> Capture Performance of Perfluorinated Cerium-Based Metal-Organic Frameworks with UiO-66 and MIL-140 Topology. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 394-402	8.3	46
61	Immobilization of Anti-Inflammatory Drug on Exfoliated Zirconium Phosphate as a pH-Responsive Carrier. <i>Colloids and Interface Science Communications</i> , <b>2019</b> , 28, 29-33	5.4	7
60	Composite short side chain PFSA membranes for PEM water electrolysis. <i>Journal of Membrane Science</i> , <b>2019</b> , 570-571, 69-76	9.6	26
59	Crystallite formation effect on the physicochemical properties of SPEEK membranes for fuel cell application. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 5175-5183	6.7	8
58	Mechanically stable nanofibrous SPEEK/Aquivion <sup>®</sup> composite membranes for fuel cell applications. <i>Journal of Membrane Science</i> , <b>2018</b> , 545, 66-74	9.6	59
57	From microcrystalline to nanosized Zirconium phosphate: Synthetic approaches and applications of an old material with a bright future. <i>Coordination Chemistry Reviews</i> , <b>2018</b> , 374, 218-235	23.2	23
56	Intercalation of Bioactive Molecules into Nanosized ZnAl Hydroxalates for Combined Chemo and Photo Cancer Treatment. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 6387-6397	5.6	4
55	Anionic conducting composite membranes based on aromatic polymer and layered double hydroxides. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 3197-3205	6.7	33
54	Mixed Membrane Matrices Based on Nafion/UiO-66/SOH-UiO-66 Nano-MOFs: Revealing the Effect of Crystal Size, Sulfonation, and Filler Loading on the Mechanical and Conductivity Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 42239-42246	9.5	67
53	A combined strategy for the synthesis of double functionalized Zirconium phosphate organic derivatives. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 8390-8396	3.6	7
52	1,2,3-Triazole-Functionalized Polysulfone Synthesis through Microwave-Assisted Copper-Catalyzed Click Chemistry: A Highly Proton Conducting High Temperature Membrane. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 16897-906	9.5	36
51	Effect of different fabrication methods on the chemo-physical properties of silk fibroin films and on their interaction with neural cells. <i>RSC Advances</i> , <b>2016</b> , 6, 9304-9314	3.7	24
50	Improving the mechanical stability of proton conducting SPEEK membranes by in situ precipitation of zirconium phosphate phenylphosphonates. <i>RSC Advances</i> , <b>2016</b> , 6, 36606-36614	3.7	8

49	Carboxymethylcellulose films containing chlorhexidine/zirconium phosphate nanoparticles: antibiofilm activity and cytotoxicity. <i>RSC Advances</i> , <b>2016</b> , 6, 46249-46257	3.7	16
48	APTES mediated modular modification of regenerated silk fibroin in a water solution. <i>RSC Advances</i> , <b>2015</b> , 5, 63401-63406	3.7	11
47	Nanosized zirconium phosphate/AgCl composite materials: a new synergy for efficient photocatalytic degradation of organic dye pollutants. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 5525-5534	3.4	35
46	Small is beautiful: the unusual transformation of nanocrystalline layered zirconium phosphate into a new 3D structure. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 9146-53	5.1	17
45	Double filler reinforced ionomers: a new approach to the design of composite membranes for fuel cell applications. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23530-23538	13	17
44	Layered zirconium alkylphosphates: Suitable materials for novel PFSA composite membranes with improved proton conductivity and mechanical stability. <i>Journal of Membrane Science</i> , <b>2014</b> , 462, 42-49	9.6	28
43	Innovative multifunctional silk fibroin and hydrotalcite nanocomposites: a synergic effect of the components. <i>Biomacromolecules</i> , <b>2014</b> , 15, 158-68	6.9	29
42	Reactive coaxial electrospinning of ZrP/ZrO <sub>2</sub> nanofibres. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 13359-13366	3.3	3366
41	Dynamic nuclear polarisation NMR of nanosized zirconium phosphate polymer fillers. <i>Chemical Communications</i> , <b>2014</b> , 50, 10137-9	5.8	11
40	Chitosan films containing mesoporous SBA-15 supported silver nanoparticles for wound dressing. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 6054-6063	7.3	71
39	Promising aquivion composite membranes based on fluoroalkyl zirconium phosphate for fuel cell applications. <i>ChemSusChem</i> , <b>2014</b> , 7, 2176-84	8.3	17
38	Layered metal(IV) phosphonates with rigid pendant groups: new synthetic approaches to nanosized zirconium phosphate phenylphosphonates. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 2222-9	5.1	23
37	Zirconium phosphate reinforced short side chain perfluorosulfonic acid membranes for medium temperature proton exchange membrane fuel cell application. <i>Journal of Power Sources</i> , <b>2014</b> , 262, 407-413	8.9	16
36	Water-mediated proton conduction in a robust triazolyl phosphonate metal-organic framework with hydrophilic nanochannels. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 8862-6	4.8	28
35	A layered mixed zirconium phosphate/phosphonate with exposed carboxylic and phosphonic groups: X-ray powder structure and proton conductivity properties. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 13220-6	5.1	54
34	Crosslinked SPES-SPPSU membranes for high temperature PEMFCs. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 1517-1523	6.7	48
33	Synthesis, crystal structure, and proton conductivity of one-dimensional, two-dimensional, and three-dimensional zirconium phosphonates based on glyphosate and glyphosine. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 12131-9	5.1	42
32	Ag/AgCl nanoparticle decorated layered double hydroxides: synthesis, characterization and antimicrobial properties. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 2383-2393	7.3	71

31	Looking for new hybrid polymer fillers: synthesis of nanosized E-type Zr(IV) organophosphonates through an unconventional topotactic anion exchange reaction. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 7680-7	5.1	27
30	Cross-linked sulfonated aromatic ionomers via SO <sub>2</sub> bridges: Conductivity properties. <i>Journal of Power Sources</i> , <b>2013</b> , 243, 488-493	8.9	27
29	A critical investigation of the effect of hygrothermal cycling on hydration and in-plane/through-plane proton conductivity of Nafion 117 at medium temperature (70–130 °C). <i>Journal of Power Sources</i> , <b>2013</b> , 235, 129-134	8.9	19
28	Aminoalcohol functionalized zirconium phosphate as versatile filler for starch-based composite membranes. <i>Carbohydrate Polymers</i> , <b>2013</b> , 97, 210-6	10.3	8
27	Conductivity and hydration of sulfonated polyethersulfone in the range 70–120 °C: Effect of temperature and relative humidity cycling. <i>Journal of Power Sources</i> , <b>2012</b> , 205, 145-150	8.9	23
26	New approach for the evaluation of membranes transport properties for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , <b>2012</b> , 205, 222-230	8.9	23
25	Short side chain perfluorosulfonic acid membranes and their composites with nanosized zirconium phosphate: hydration, mechanical properties and proton conductivity. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 24902		29
24	Effects of water freezing on the mechanical properties of nafion membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2012</b> , 50, 1421-1425	2.6	13
23	Survey on the phase transitions and their effect on the ion-exchange and on the proton-conduction properties of a flexible and robust Zr phosphonate coordination polymer. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 6992-7000	5.1	81
22	Design and synthesis of plasticizing fillers based on zirconium phosphonates for glycerol-free composite starch films. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5098		16
21	Starch/zirconium phosphate composite films: Hydration, thermal stability, and mechanical properties. <i>Starch/Staerke</i> , <b>2012</b> , 64, 237-245	2.3	16
20	Advances in the chemistry of nanosized zirconium phosphates: a new mild and quick route to the synthesis of nanocrystals. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 11623-30	5.1	55
19	Composite polymer electrolytes of sulfonated poly-ether-ether-ketone (SPEEK) with organically functionalized TiO <sub>2</sub> . <i>Journal of Membrane Science</i> , <b>2011</b> , 369, 536-544	9.6	72
18	Water Activity Coefficient and Proton Mobility in Hydrated Acidic Polymers. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, B159	3.9	35
17	Organically modified zirconium phosphate by reaction with 1,2-epoxydodecane as host material for polymer intercalation: synthesis and physicochemical characterization. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 3329-36	5.1	38
16	High yield precipitation of crystalline E-zirconium phosphate from oxalic acid solutions. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 9409-15	5.1	39
15	Methanol permeability and performance of Nafion/zirconium phosphate composite membranes in active and passive direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 7751-7756	8.9	39
14	Measurement of the Young's modulus of Nafion membranes by Brillouin light scattering. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 7761-7764	8.9	18

13	Preparation, Proton Conductivity and Mechanical Properties of Nafion <sup>®</sup> /Zirconium Phosphate Sulphophenylphosphonate Composite Membranes. <i>Fuel Cells</i> , <b>2009</b> , 9, 381-386	2.9	33
12	Conductivity and Methanol Permeability of Nafion <sup>®</sup> /Zirconium Phosphate Composite Membranes Containing High Aspect Ratio Filler Particles. <i>Fuel Cells</i> , <b>2009</b> , 9, 394-400	2.9	45
11	Epoxy-nanocomposites containing exfoliated zirconium phosphate: Preparation via cationic photopolymerisation and physicochemical characterisation. <i>European Polymer Journal</i> , <b>2009</b> , 45, 2487-2493	5.3	22
10	Nafion <sup>®</sup> /Zirconium Phosphate Nanocomposite Membranes with High Filler Loadings: Conductivity and Mechanical Properties. <i>Fuel Cells</i> , <b>2008</b> , 8, 217-224	2.9	58
9	Polyvinylidene fluoride/zirconium phosphate sulfophenylphosphonate nanocomposite films: microstructure and mechanical properties. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 4291		13
8	Low-frequency dynamics of water absorbed in Nafion membranes as a function of temperature. <i>Philosophical Magazine</i> , <b>2007</b> , 87, 477-483	1.6	1
7	Novel Nafion <sup>®</sup> /zirconium phosphate nanocomposite membranes with enhanced stability of proton conductivity at medium temperature and high relative humidity. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 8125-8132	6.7	150
6	Preparation and analysis of new proton conducting membranes for fuel cells. <i>Solid State Ionics</i> , <b>2007</b> , 178, 493-500	3.3	6
5	Vibrational spectra and H-bondings in anhydrous and monohydrate Zr phosphates. <i>Journal of Solid State Chemistry</i> , <b>2007</b> , 180, 1198-1208	3.3	11
4	Preparation and properties of nafion membranes containing nanoparticles of zirconium phosphate. <i>Desalination</i> , <b>2006</b> , 199, 280-282	10.3	19
3	Gels of zirconium phosphate in organic solvents and their use for the preparation of polymeric nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 4262		54
2	Characterization of Zr Phosphate/PVDF Nanocomposites by Vibrational Spectroscopy. <i>Macromolecular Symposia</i> , <b>2005</b> , 230, 95-104	0.8	12
1	Preparation and characterisation of layered zirconium phosphate sulfophenylene phosphonates with variable concentration of sulfonic groups. <i>Solid State Ionics</i> , <b>2005</b> , 176, 2893-2898	3.3	53