

Anna Donnadio

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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	Novel Nafion [®] /zirconium phosphate nanocomposite membranes with enhanced stability of proton conductivity at medium temperature and high relative humidity. <i>Electrochimica Acta</i> , 2007 , 52, 8125-8132	6.7	150
83	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> , 2012 , 51, 6992-7000	5.1	81
82	Composite polymer electrolytes of sulfonated poly-ether-ether-ketone (SPEEK) with organically functionalized TiO ₂ . <i>Journal of Membrane Science</i> , 2011 , 369, 536-544	9.6	72
81	Chitosan films containing mesoporous SBA-15 supported silver nanoparticles for wound dressing. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 6054-6063	7.3	71
80	Ag/AgCl nanoparticle decorated layered double hydroxides: synthesis, characterization and antimicrobial properties. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2383-2393	7.3	71
79	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 & Interfaces</i> , 2017 , 9, 42239-42246	9.5	67
78	Mechanically stable nanofibrous SPEEK/Aquivion [®] composite membranes for fuel cell applications. <i>Journal of Membrane Science</i> , 2018 , 545, 66-74	9.6	59
77	Nafion [®] /zirconium Phosphate Nanocomposite Membranes with High Filler Loadings: Conductivity and Mechanical Properties. <i>Fuel Cells</i> , 2008 , 8, 217-224	2.9	58
76	Advances in the chemistry of nanosized zirconium phosphates: a new mild and quick route to the synthesis of nanocrystals. <i>Inorganic Chemistry</i> , 2011 , 50, 11623-30	5.1	55
75	A layered mixed zirconium phosphate/phosphonate with exposed carboxylic and phosphonic groups: X-ray powder structure and proton conductivity properties. <i>Inorganic Chemistry</i> , 2014 , 53, 13220-6	5.1	54
74	Gels of zirconium phosphate in organic solvents and their use for the preparation of polymeric nanocomposites. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4262		54
73	Preparation and characterisation of layered zirconium phosphate sulfophenylphosphonates with variable concentration of sulfonic groups. <i>Solid State Ionics</i> , 2005 , 176, 2893-2898	3.3	53
72	Crosslinked SPES-SPPSU membranes for high temperature PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1517-1523	6.7	48
71	Water-Based Synthesis and Enhanced CO ₂ Capture Performance of Perfluorinated Cerium-Based Metal-Organic Frameworks with UiO-66 and MIL-140 Topology. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 394-402	8.3	46
70	Conductivity and Methanol Permeability of Nafion [®] /zirconium Phosphate Composite Membranes Containing High Aspect Ratio Filler Particles. <i>Fuel Cells</i> , 2009 , 9, 394-400	2.9	45
69	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> , 2013 , 52, 12131-9	5.1	42
68	High yield precipitation of crystalline zirconium phosphate from oxalic acid solutions. <i>Inorganic Chemistry</i> , 2010 , 49, 9409-15	5.1	39

67	Methanol permeability and performance of Nafion [®] zirconium phosphate composite membranes in active and passive direct methanol fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 7751-7756	8.9	39
66	Organically modified zirconium phosphate by reaction with 1,2-epoxydodecane as host material for polymer intercalation: synthesis and physicochemical characterization. <i>Inorganic Chemistry</i> , 2010 , 49, 3329-36	5.1	38
65	Biocompatible alginate silica supported silver nanoparticles composite films for wound dressing with antibiofilm activity. <i>Materials Science and Engineering C</i> , 2020 , 112, 110863	8.3	36
64	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 & Interfaces</i> , 2016 , 8, 16897-906	9.5	36
63	Nanosized zirconium phosphate/AgCl composite materials: a new synergy for efficient photocatalytic degradation of organic dye pollutants. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5525-5534	12.4	35
62	Water Activity Coefficient and Proton Mobility in Hydrated Acidic Polymers. <i>Journal of the Electrochemical Society</i> , 2011 , 158, B159	3.9	35
61	Anionic conducting composite membranes based on aromatic polymer and layered double hydroxides. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3197-3205	6.7	33
60	Preparation, Proton Conductivity and Mechanical Properties of Nafion 117 [®] zirconium Phosphate Sulphophenylphosphonate Composite Membranes. <i>Fuel Cells</i> , 2009 , 9, 381-386	2.9	33
59	Innovative multifunctional silk fibroin and hydroxalcite nanocomposites: a synergic effect of the components. <i>Biomacromolecules</i> , 2014 , 15, 158-68	6.9	29
58	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> , 2012 , 22, 24902		29
57	Layered zirconium alkylphosphates: Suitable materials for novel PFSA composite membranes with improved proton conductivity and mechanical stability. <i>Journal of Membrane Science</i> , 2014 , 462, 42-49	9.6	28
56	Water-mediated proton conduction in a robust triazolyl phosphonate metal-organic framework with hydrophilic nanochannels. <i>Chemistry - A European Journal</i> , 2014 , 20, 8862-6	4.8	28
55	Looking for new hybrid polymer fillers: synthesis of nanosized μ -type Zr(IV) organophosphonates through an unconventional topotactic anion exchange reaction. <i>Inorganic Chemistry</i> , 2013 , 52, 7680-7	5.1	27
54	Cross-linked sulfonated aromatic ionomers via SO ₂ bridges: Conductivity properties. <i>Journal of Power Sources</i> , 2013 , 243, 488-493	8.9	27
53	Composite short side chain PFSA membranes for PEM water electrolysis. <i>Journal of Membrane Science</i> , 2019 , 570-571, 69-76	9.6	26
52	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> , 2016 , 6, 9304-9314	3.7	24
51	Nano-hybrid electrospun non-woven mats made of wool keratin and hydroxalrites as potential bio-active wound dressings. <i>Nanoscale</i> , 2019 , 11, 6422-6430	7.7	23
50	From microcrystalline to nanosized μ -zirconium phosphate: Synthetic approaches and applications of an old material with a bright future. <i>Coordination Chemistry Reviews</i> , 2018 , 374, 218-235	23.2	23

49	Layered metal(IV) phosphonates with rigid pendant groups: new synthetic approaches to nanosized zirconium phosphate phenylphosphonates. <i>Inorganic Chemistry</i> , 2014 , 53, 2222-9	5.1	23
48	Conductivity and hydration of sulfonated polyethersulfone in the range 70–20 °C: Effect of temperature and relative humidity cycling. <i>Journal of Power Sources</i> , 2012 , 205, 145-150	8.9	23
47	New approach for the evaluation of membranes transport properties for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2012 , 205, 222-230	8.9	23
46	Tumor Targeting by Peptide-Decorated Gold Nanoparticles. <i>Molecular Pharmaceutics</i> , 2019 , 16, 2430-2444	3.6	22
45	Epoxy-nanocomposites containing exfoliated zirconium phosphate: Preparation via cationic photopolymerisation and physicochemical characterisation. <i>European Polymer Journal</i> , 2009 , 45, 2487-2493	5.3	22
44	De-Ethylation and Cleavage of Rhodamine B by a Zirconium Phosphate/Silver Bromide Composite Photocatalyst. <i>Catalysts</i> , 2019 , 9, 3	4	20
43	A critical investigation of the effect of hygrothermal cycling on hydration and in-plane/through-plane proton conductivity of Nafion 117 at medium temperature (70–30 °C). <i>Journal of Power Sources</i> , 2013 , 235, 129-134	8.9	19
42	Preparation and properties of nafion membranes containing nanoparticles of zirconium phosphate. <i>Desalination</i> , 2006 , 199, 280-282	10.3	19
41	Measurement of the Young's modulus of Nafion membranes by Brillouin light scattering. <i>Journal of Power Sources</i> , 2010 , 195, 7761-7764	8.9	18
40	Small is beautiful: the unusual transformation of nanocrystalline layered zirconium phosphate into a new 3D structure. <i>Inorganic Chemistry</i> , 2015 , 54, 9146-53	5.1	17
39	Promising aquivion composite membranes based on fluoroalkyl zirconium phosphate for fuel cell applications. <i>ChemSusChem</i> , 2014 , 7, 2176-84	8.3	17
38	Double filler reinforced ionomers: a new approach to the design of composite membranes for fuel cell applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23530-23538	13	17
37	Halloysite-Doped Zinc Oxide for Enhanced Sunscreening Performance. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6575-6584	5.6	16
36	Reactive coaxial electrospinning of ZrP/ZrO ₂ nanofibres. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13359-13365	3.3	16
35	Zirconium phosphate reinforced short side chain perfluorosulfonic acid membranes for medium temperature proton exchange membrane fuel cell application. <i>Journal of Power Sources</i> , 2014 , 262, 407-413	8.9	16
34	Design and synthesis of plasticizing fillers based on zirconium phosphonates for glycerol-free composite starch films. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5098		16
33	Starch/zirconium phosphate composite films: Hydration, thermal stability, and mechanical properties. <i>Starch/Staerke</i> , 2012 , 64, 237-245	2.3	16
32	Carboxymethylcellulose films containing chlorhexidine/zirconium phosphate nanoparticles: antibiofilm activity and cytotoxicity. <i>RSC Advances</i> , 2016 , 6, 46249-46257	3.7	16

31	Polydopamine Nanoparticle-Coated Polysulfone Porous Granules as Adsorbents for Water Remediation. <i>ACS Omega</i> , 2019 , 4, 4839-4847	3.9	15
30	Nanostructured zinc oxide on silica surface: Preparation, physicochemical characterization and antimicrobial activity. <i>Materials Science and Engineering C</i> , 2019 , 104, 109977	8.3	13
29	Effects of water freezing on the mechanical properties of nafion membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1421-1425	2.6	13
28	Polyvinylidene fluoride/zirconium phosphate sulfophenylphosphonate nanocomposite films: microstructure and mechanical properties. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4291		13
27	Characterization of Zr Phosphate/PVDF Nanocomposites by Vibrational Spectroscopy. <i>Macromolecular Symposia</i> , 2005 , 230, 95-104	0.8	12
26	APTES mediated modular modification of regenerated silk fibroin in a water solution. <i>RSC Advances</i> , 2015 , 5, 63401-63406	3.7	11
25	Dynamic nuclear polarisation NMR of nanosized zirconium phosphate polymer fillers. <i>Chemical Communications</i> , 2014 , 50, 10137-9	5.8	11
24	Vibrational spectra and H-bondings in anhydrous and monohydrate Zr phosphates. <i>Journal of Solid State Chemistry</i> , 2007 , 180, 1198-1208	3.3	11
23	Keratin Film as Natural and Eco-Friendly Support for Organic Optoelectronic Devices. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1900080	5.9	10
22	Ionic and covalent crosslinking in chitosan-succinic acid membranes: Effect on physicochemical properties. <i>Carbohydrate Polymers</i> , 2021 , 251, 117106	10.3	10
21	Crystallite formation effect on the physicochemical properties of SPEEK membranes for fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 5175-5183	6.7	8
20	Aminoalcohol functionalized zirconium phosphate as versatile filler for starch-based composite membranes. <i>Carbohydrate Polymers</i> , 2013 , 97, 210-6	10.3	8
19	Active electrospun nanofibers as an effective reinforcement for highly conducting and durable proton exchange membranes. <i>Journal of Membrane Science</i> , 2021 , 622, 119037	9.6	8
18	Improving the mechanical stability of proton conducting SPEEK membranes by in situ precipitation of zirconium phosphate phenylphosphonates. <i>RSC Advances</i> , 2016 , 6, 36606-36614	3.7	8
17	A combined strategy for the synthesis of double functionalized Zirconium phosphate organic derivatives. <i>New Journal of Chemistry</i> , 2016 , 40, 8390-8396	3.6	7
16	Immobilization of Anti-Inflammatory Drug on Exfoliated Zirconium Phosphate as a pH-Responsive Carrier. <i>Colloids and Interface Science Communications</i> , 2019 , 28, 29-33	5.4	7
15	Preparation and analysis of new proton conducting membranes for fuel cells. <i>Solid State Ionics</i> , 2007 , 178, 493-500	3.3	6
14	On the evolution of proton conductivity of Aquivion membranes loaded with CeO ₂ based nanofillers: Effect of temperature and relative humidity. <i>Journal of Membrane Science</i> , 2019 , 574, 17-23	9.6	6

13	Antibacterial Properties of a Novel Zirconium Phosphate-Glycinediphosphonate Loaded with Either Zinc or Silver. <i>Materials</i> , 2019 , 12,	3.5	5
12	AgCl-ZnAl Layered Double Hydroxides as Catalysts with Enhanced Photodegradation and Antibacterial Activities. <i>Inorganics</i> , 2019 , 7, 120	2.9	5
11	Investigating the effect of positional isomerism on the assembly of zirconium phosphonates based on tritopic linkers. <i>Dalton Transactions</i> , 2020 , 49, 3662-3666	4.3	5
10	Effect of Chemically Engineered Au/Ag Nanorods on the Optical and Mechanical Properties of Keratin Based Films. <i>Frontiers in Chemistry</i> , 2020 , 8, 158	5	5
9	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> , 2021 , 209, 112944	6.8	4
8	Intercalation of Bioactive Molecules into Nanosized ZnAl Hydroxalates for Combined Chemo and Photo Cancer Treatment. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6387-6397	5.6	4
7	Zirconium Carboxyaminophosphonate Nanosheets as Support for Ag Nanoparticles. <i>Materials</i> , 2019 , 12,	3.5	3
6	Bioinspired Reactive Interfaces Based on Layered Double Hydroxides-Zn Rich Hydroxyapatite with Antibacterial Activity. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 1361-1373	5.5	3
5	A new challenge for nanocrystalline Zirconium phosphate: reaction with a diepoxyalkane. <i>Dalton Transactions</i> , 2020 , 49, 3869-3876	4.3	2
4	Use of calcium carbonate as an excipient for release of poorly water soluble drugs: The case of carbamazepine. <i>International Journal of Pharmaceutics</i> , 2020 , 589, 119860	6.5	2
3	Layered double hydroxides intercalated with fluoride and methacrylate anions as multifunctional filler of acrylic resins for dental composites. <i>Applied Clay Science</i> , 2020 , 197, 105796	5.2	2
2	Low-frequency dynamics of water absorbed in Nafion membranes as a function of temperature. <i>Philosophical Magazine</i> , 2007 , 87, 477-483	1.6	1
1	PVC grafted zinc oxide nanoparticles as an inhospitable surface to microbes. <i>Materials Science and Engineering C</i> , 2021 , 128, 112290	8.3	1