

Rosario M P Colodrero

List of Publications by Year in descending order

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32
papers

1,127
citations

471509

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454955

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docs citations

33
times ranked

1174
citing authors

#	ARTICLE	IF	CITATIONS
1	Guest Molecule-Responsive Functional Calcium Phosphonate Frameworks for Tuned Proton Conductivity. <i>Journal of the American Chemical Society</i> , 2014, 136, 5731-5739.	13.7	206
2	Multifunctional Luminescent and Proton-Conducting Lanthanide Carboxyphosphonate Open-Framework Hybrids Exhibiting Crystalline-to-Amorphous-to-Crystalline Transformations. <i>Chemistry of Materials</i> , 2012, 24, 3780-3792.	6.7	162
3	High Proton Conductivity in a Flexible, Cross-Linked, Ultramicroporous Magnesium Tetrakisphosphate Hybrid Framework. <i>Inorganic Chemistry</i> , 2012, 51, 7689-7698.	4.0	118
4	Multifunctional lanthanum tetrakisphosphonates: Flexible, ultramicroporous and proton-conducting hybrid frameworks. <i>Dalton Transactions</i> , 2012, 41, 4045.	3.3	85
5	Tuning Proton Conductivity in Alkali Metal Phosphonocarboxylates by Cation Size-Induced and Water-Facilitated Proton Transfer Pathways. <i>Chemistry of Materials</i> , 2015, 27, 424-435.	6.7	82
6	Structural Variability in Multifunctional Metal Xylenediaminetetrakisphosphonate Hybrids. <i>Inorganic Chemistry</i> , 2013, 52, 8770-8783.	4.0	46
7	“Breathing” in Adsorbate-Responsive Metal Tetrakisphosphonate Hybrid Materials. <i>Chemistry - A European Journal</i> , 2009, 15, 6612-6618.	3.3	40
8	Layered Lanthanide Sulfophosphonates and Their Proton Conduction Properties in Membrane Electrode Assemblies. <i>Chemistry of Materials</i> , 2019, 31, 9625-9634.	6.7	34
9	Structural Mapping and Framework Interconversions in 1D, 2D, and 3D Divalent Metal $\langle i \rangle R_2S \langle /i \rangle$ -Hydroxyphosphonoacetate Hybrids. <i>Inorganic Chemistry</i> , 2010, 49, 761-768.	4.0	33
10	Common Structural Features in Calcium Hydroxyphosphonoacetates. A High-Throughput Screening. <i>Crystal Growth and Design</i> , 2011, 11, 1713-1722.	3.0	32
11	Crystal engineering in confined spaces. A novel method to grow crystalline metal phosphonates in alginate gel systems. <i>CrystEngComm</i> , 2012, 14, 5385.	2.6	32
12	Synthesis and structural characterization of homochiral 2D coordination polymers of zinc and copper with conformationally flexible ditopic imidazolium-based dicarboxylate ligands. <i>Dalton Transactions</i> , 2017, 46, 471-482.	3.3	27
13	Divalent Metal Vinylphosphonate Layered Materials: Compositional Variability, Structural Peculiarities, Dehydration Behavior, and Photoluminescent Properties. <i>Inorganic Chemistry</i> , 2011, 50, 11202-11211.	4.0	25
14	Homologous alkyl side-chain diphosphonate inhibitors for the corrosion protection of carbon steels. <i>Chemical Engineering Journal</i> , 2021, 405, 126864.	12.7	21
15	Properties and Applications of Metal Phosphates and Pyrophosphates as Proton Conductors. <i>Materials</i> , 2022, 15, 1292.	2.9	20
16	Synthesis and structural characterization of 2-D layered copper(II) styrylphosphonate coordination polymers. <i>Journal of Coordination Chemistry</i> , 2014, 67, 1562-1572.	2.2	19
17	Three-Component Copper-Phosphonate-Auxiliary Ligand Systems: Proton Conductors and Efficient Catalysts in Mild Oxidative Functionalization of Cycloalkanes. <i>Inorganic Chemistry</i> , 2018, 57, 10656-10666.	4.0	19
18	2D Corrugated Magnesium Carboxyphosphonate Materials: Topotactic Transformations and Interlayer “Decoration” with Ammonia. <i>Inorganic Chemistry</i> , 2012, 51, 7889-7896.	4.0	18

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19	Photodegradation of Phenol over a Hybrid Organo-Inorganic Material: Iron(II) Hydroxyphosphonoacetate. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14526-14533.	3.1	13
20	From light to heavy alkali metal tetraphosphonates (M = Li, Na, K, Rb, Cs): cation size-induced structural diversity and water-facilitated proton conductivity. <i>CrystEngComm</i> , 2018, 20, 7648-7658.	2.6	13
21	Assessment of ATR-FTIR spectroscopy with multivariate analysis to investigate the binding mechanisms of Ag and TiO ₂ nanoparticles to Chelex®-100 or Metsorbâ,ç for the DGT technique. <i>Analytical Methods</i> , 2020, 12, 959-969.	2.7	11
22	Structural variability in M ²⁺ 2-hydroxyphosphonoacetate moderate proton conductors. <i>Pure and Applied Chemistry</i> , 2017, 89, 75-87.	1.9	10
23	NH ₃ /H ₂ O-mediated proton conductivity and photocatalytic behaviour of Fe(ii)-hydroxyphosphonoacetate and M(ii)-substituted derivatives. <i>Dalton Transactions</i> , 2020, 49, 3981-3988.	3.3	9
24	Zinc(II), cobalt(II) and manganese(II) networks with phosphoserine ligand: synthesis, crystal structures and magnetic and proton conductivity properties. <i>Dalton Transactions</i> , 2017, 46, 16570-16579.	3.3	8
25	Structural and proton conductivity studies of fibrous ĩ-Ti ₂ O(PO ₄) ₂ ·2H ₂ O: application in chitosan-based composite membranes. <i>Dalton Transactions</i> , 2021, 50, 7667-7677.	3.3	8
26	Synthesis and electrochemical properties of metal(II)-carboxyethylphenylphosphinates. <i>Dalton Transactions</i> , 2021, 50, 6539-6548.	3.3	8
27	Exploiting the Multifunctionality of M ²⁺ /Imidazole-Étironates for Proton Conductivity (Zn ²⁺) and Electrocatalysis (Co ²⁺ , Ni ²⁺) toward the HER, OER, and ORR. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11273-11287.	8.0	8
28	Phase Transformation Dynamics in Sulfate-Loaded Lanthanide Triphosphonates. Proton Conductivity and Application as Fillers in PEMFCs. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15279-15291.	8.0	7
29	Homochiral imidazolium-based dicarboxylate compounds: Structure and solution behaviour. <i>Inorganica Chimica Acta</i> , 2020, 513, 119923.	2.4	6
30	High-Throughput Synthesis of Pillared-Layered Magnesium Tetraphosphonate Coordination Polymers: Framework Interconversions and Proton Conductivity Studies. <i>Inorganics</i> , 2018, 6, 96.	2.7	4
31	Crystal structures and ultramicroporosity in Mg and Ca tetraphosphonate hybrids. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C710-C711.	0.3	0
32	Luminescent proton-conducting lanthanide carboxyphosphonate open-framework hybrids. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, s224-s224.	0.3	0