Konstantinos D Demadis

List of Publications by Year
in descending order

151 papers	7,193 citations	44069 48 h-index	66911 78 g-index
158 all docs	158 docs citations	158 times ranked	5288 citing authors

#	Article	IF	Citations
1	The Localized-to-Delocalized Transition in Mixed-Valence Chemistry. Chemical Reviews, 2001, 101, 2655-2686.	47.7	966
2	Modern Views on Desilicification: Biosilica and Abiotic Silica Dissolution in Natural and Artificial Environments. Chemical Reviews, 2010, 110, 4656-4689.	47.7	215
3	Guest Molecule-Responsive Functional Calcium Phosphonate Frameworks for Tuned Proton Conductivity. Journal of the American Chemical Society, 2014, 136, 5731-5739.	13.7	206
4	Multifunctional Luminescent and Proton-Conducting Lanthanide Carboxyphosphonate Open-Framework Hybrids Exhibiting Crystalline-to-Amorphous-to-Crystalline Transformations. Chemistry of Materials, 2012, 24, 3780-3792.	6.7	162
5	Use of antiscalants for mitigation of silica (SiO2) fouling and deposition: fundamentals and applications in desalination systems. Desalination, 2004, 167, 257-272.	8.2	150
6	Crystal growth and characterization of zincâ€“(amino-tris-(methylenephosphonate)) organicâ€“inorganic hybrid networks and their inhibiting effect on metallic corrosion. Inorganic Chemistry Communication, 2005, 8, 254-258.	3.9	127
7	High Proton Conductivity in a Flexible, Cross-Linked, Ultramicroporous Magnesium Tetraphosphonate Hybrid Framework. Inorganic Chemistry, 2012, 51, 7689-7698.	4.0	118
8	METAL-PHOSPHONATE CHEMISTRY: SYNTHESIS, CRYSTAL STRUCTURE OF CALCIUM-AMINOTRIS -(METHYLENE) Tj ETQq0 0 0 rgBT /Over Related Elements, 2004, 179, 627-648.	1.6	117
9	Catalytic Reduction of Hydrazine to Ammonia with MoFe3S4â˜Polycarboxylate Clusters. Possible Relevance Regarding the Function of the Molybdenum-Coordinated Homocitrate in Nitrogenase. Inorganic Chemistry, 1996, 35, 4038-4046.	4.0	116
10	Catalytic Reduction of Hydrazine to Ammonia by the VFe3S4 Cubanes. Further Evidence for the Direct Involvement of the Heterometal in the Reduction of Nitrogenase Substrates and Possible Relevance to the Vanadium Nitrogenases. Journal of the American Chemical Society, 1995, 117, 3126-3133.	13.7	111
11	Industrial water systems: problems, challenges and solutions for the process industries. Desalination, 2007, 213, 38-46.	8.2	105
12	OsIII(N2)OsIIComplexes at the Localized-to-Delocalized, Mixed-Valence Transition. Journal of the American Chemical Society, 1999, 121, 535-544.	13.7	98
13	Principles of demineralization: Modern strategies for the isolation of organic frameworks. Micron, 2009, 40, 169-193.	2.2	97
14	Being â€œgreenâ€•in chemical water treatment technologies: issues, challenges and developments. Desalination, 2008, 223, 487-493.	8.2	96
15	Synthesis, structural characterization, and properties of new single and double cubanes containing the MoFe3S4 structural unit and molybdenum-bound polycarboxylate ligands. Clusters with a molybdenum-coordination environment similar to that in the iron-molybdenum cofactor of nitrogenase. Inorganic Chemistry, 1995, 34, 436-448.	4.0	88
16	Effects of Carboxylate-Modified, â€œGreenâ€•Inulin Biopolymers on the Crystal Growth of Calcium Oxalate. Crystal Growth and Design, 2008, 8, 1997-2005.	3.0	88
17	Multifunctional lanthanum tetraphosphonates: Flexible, ultramicroporous and proton-conducting hybrid frameworks. Dalton Transactions, 2012, 41, 4045.	3.3	85
18	Tuning Proton Conductivity in Alkali Metal Phosphonocarboxylates by Cation Size-Induced and Water-Facilitated Proton Transfer Pathways. Chemistry of Materials, 2015, 27, 424-435.	6.7	82

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19	New Directions in Metal Phosphonate and Phosphinate Chemistry. Crystals, 2019, 9, 270.	2.2	81
20	Inorganic foulants in membrane systems: chemical control strategies and the contribution of â€œgreen chemistryâ€. Desalination, 2005, 179, 281-295.	8.2	80
21	Systematic Structural Determinants of the Effects of Tetraphosphonates on Gypsum Crystallization. Crystal Growth and Design, 2009, 9, 5145-5154.	3.0	80
22	Reactivity of Osmium(VI) Nitrides with the Azide Ion. A New Synthetic Route to Osmium(II) Polypyridyl Complexes. Inorganic Chemistry, 1998, 37, 3610-3619.	4.0	78
23	Principles of demineralization: Modern strategies for the isolation of organic frameworks. Micron, 2008, 39, 1062-1091.	2.2	76
24	Synthesis and Structural Characterization of the New Mo2Fe6S8(PR3)6(Cl4-cat)2 Clusters. Double Cubanes Containing Two Edge-Linked [MoFe3S4]2+ Reduced Cores. Journal of the American Chemical Society, 1995, 117, 7832-7833.	13.7	75
25	Bioinspired Insights into Silicic Acid Stabilization Mechanisms: The Dominant Role of Polyethylene Glycol-Induced Hydrogen Bonding. Journal of the American Chemical Society, 2014, 136, 4236-4244.	13.7	75
26	Inhibition and Dissolution as Dual Mitigation Approaches for Colloidal Silica Fouling and Deposition in Process Water Systems:â€‰ Functional Synergies. Industrial & Engineering Chemistry Research, 2005, 44, 7019-7026.	3.7	73
27	Controlled Release of Bis(phosphonate) Pharmaceuticals from Cationic Biodegradable Polymeric Matrices. Industrial & Engineering Chemistry Research, 2011, 50, 5873-5876.	3.7	72
28	The catalytic reduction of hydrazine to ammonia by the MoFe3S4 cubanes and implications regarding the function of nitrogenase. Evidence for direct involvement of the molybdenum atom in substrate reduction. Journal of the American Chemical Society, 1993, 115, 12193-12194.	13.7	67
29	Barium Sulfate Crystallization in the Presence of Variable Chain Length Aminomethylenetetraphosphonates and Cations (Na+or Zn2+). Crystal Growth and Design, 2007, 7, 321-327.	3.0	66
30	Synergistic Effects of Combinations of Cationic Polyaminoamide Dendrimers/Anionic Polyelectrolytes on Amorphous Silica Formation:Â A Bioinspired Approach. Chemistry of Materials, 2007, 19, 581-587.	6.7	65
31	A structure/function study of polyaminoamide dendrimers as silica scale growth inhibitors. Journal of Chemical Technology and Biotechnology, 2005, 80, 630-640.	3.2	64
32	Influence of Polyamines and Related Macromolecules on Silicic Acid Polycondensation: Relevance to â€œSoluble Silicon Poolsâ€?. Chemistry of Materials, 2011, 23, 4676-4687.	6.7	63
33	Localization in trans,trans-[(tpy)(Cl)2OsIII(N2)OsII(Cl)2(tpy)]+ (tpy = 2,2â€˜:6â€˜,2â€˜â€˜-Terpyridine). Inorganic Chemistry, 1997, 36, 5678-5679.	4.0	62
34	Phosphonopolycarboxylates as Chemical Additives for Calcite Scale Dissolution and Metallic Corrosion Inhibition Based on a Calcium-Phosphonotricarboxylate Organicâ^'Inorganic Hybrid. Crystal Growth and Design, 2006, 6, 1064-1067.	3.0	62
35	Silica scale inhibition by polyaminoamide STARBURSTÂ® dendrimers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 242, 213-216.	4.7	61
36	Solubility Enhancement of Silicate with Polyamine/Polyammonium Cationic Macromolecules:Â Relevance to Silica-Laden Process Watersâ€. Industrial & Engineering Chemistry Research, 2006, 45, 4436-4440.	3.7	61

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37	Corrugated, Sheet-Like Architectures in Layered Alkaline-Earth Metal R,S-Hydroxyphosphonoacetate Frameworks: Applications for Anticorrosion Protection of Metal Surfaces. Chemistry of Materials, 2008, 20, 4835-4846.	6.7	61
38	Intervalence Transfer at the Localized-to-Delocalized, Mixed-Valence Transition in Osmium Polypyridyl Complexes. Inorganic Chemistry, 1999, 38, 5948-5959.	4.0	60
39	Metalâ^'Organotetraphosphonate Inorganicâ^'Organic Hybrids:Â Crystal Structure and Anticorrosion Effects of Zinc Hexamethylenediaminetetrakis(methylenephosphonate) on Carbon Steels. Inorganic Chemistry, 2005, 44, 4469-4471.	4.0	58
40	Effects of Structural Differences on Metallic Corrosion Inhibition by Metalâ^'Polyphosphonate Thin Films. Industrial & Engineering Chemistry Research, 2006, 45, 7795-7800.	3.7	58
41	Luminescent and Proton Conducting Lanthanide Coordination Networks Based On a Zwitterionic Tripodal Triphosphonate. Inorganic Chemistry, 2016, 55, 7414-7424.	4.0	57
42	Synthesis and Characterization of Phosphonate Ester/Phosphonic Acid Grafted Styreneâ^'Divinylbenzene Copolymer Microbeads and Their Utility in Adsorption of Divalent Metal Ions in Aqueous Solutions. Industrial & Engineering Chemistry Research, 2008, 47, 2010-2017.	3.7	55
43	The Effect of Citrate and Phosphocitrate On Struvite Spontaneous Precipitation. Crystal Growth and Design, 2007, 7, 2705-2712.	3.0	52
44	Reactivity of Osmium(VI) Nitrides with the Azide Ion. Inorganic Chemistry, 1998, 37, 838-839.	4.0	51
45	Alkaline Earth Metal Organotriphosphonates:â€‰Inorganicâ^'Organic Polymeric Hybrids from Dicationâ^'Dianion Association. Crystal Growth and Design, 2006, 6, 836-838.	3.0	51
46	Environmentally benign chemical additives in the treatment and chemical cleaning of process water systems: Implications for green chemical technology. Desalination, 2007, 210, 257-265.	8.2	51
47	Corrosion protection of carbon steel by tetraphosphonates of systematically different molecular size. Corrosion Science, 2018, 145, 135-150.	6.6	51
48	Oxo-Like Reactivity of High Oxidation State Osmium Hydrazido Complexes. Journal of the American Chemical Society, 1999, 121, 1403-1404.	13.7	50
49	Bioinspired control of colloidal silica in vitro by dual polymeric assemblies of zwitterionic phosphomethylated chitosan and polycations or polyanions. Advances in Colloid and Interface Science, 2009, 151, 33-48.	14.7	50
50	Catalytic and stoichiometric multielectron reduction of hydrazine to ammonia and acetylene to ethylene with clusters that contain the MFe3S4 cores (Mî—»Mo, V). Relevance to the function of nitrogenase. Journal of Molecular Catalysis A, 1996, 107, 123-135.	4.8	49
51	Mechanism and Molecularâ^'Electronic Structure Correlations in a Novel Series of Osmium(V) Hydrazido Complexes. Inorganic Chemistry, 2000, 39, 3075-3085.	4.0	48
52	Green additives to enhance silica dissolution during water treatment. Environmental Chemistry Letters, 2005, 3, 127-131.	16.2	47
53	Nitrogen atom transfer and redox chemistry of terpyridyl phosphoraniminato complexes of osmium (IV). Inorganica Chimica Acta, 1998, 270, 511-526.	2.4	46
54	Inhibitory Effects of Multicomponent, Phosphonate-Grafted, Zwitterionic Chitosan Biomacromolecules on Silicic Acid Condensation. Biomacromolecules, 2008, 9, 3288-3293.	5.4	46

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55	Structural Variability in Multifunctional Metal Xylenediaminetetraphosphonate Hybrids. Inorganic Chemistry, 2013, 52, 8770-8783.	4.0	46
56	Vibrational Mapping at the Mixed-Valence, Localized-to-Delocalized Transition. Journal of the American Chemical Society, 1998, 120, 7121-7122.	13.7	45
57	Structural Characterization and Reactivity Properties of a New Class of Fe/Mo/S Double Cubanes with Mo-Bound S-.mu.2-.eta.1,O-.eta.1 Mercapto Carboxylate Ligands. New Catalysts for the Reduction of Hydrazine to Ammonia and Implications Regarding the Function of Nitrogenase. Inorganic Chemistry, 1995, 34, 3658-3666.	4.0	43
58	Stepwise Topotactic Transformations (1D to 3D) in Copper Carboxyphosphonate Materials: Structural Correlations. Crystal Growth and Design, 2010, 10, 357-364.	3.0	43
59	2D and 3D alkaline earth metal carboxyphosphonate hybrids: Anti-corrosion coatings for metal surfaces. Journal of Solid State Chemistry, 2008, 181, 679-683.	2.9	42
60	â€œBreathingâ€•in Adsorbateâ€Responsive Metal Tetraphosphonate Hybrid Materials. Chemistry - A European Journal, 2009, 15, 6612-6618.	3.3	40
61	Single and double MoFe3S4 cubanes with molybdenum-coordinated polycarboxylate ligands. Syntheses and structural characterization of (Et4N)4{[MoFe3S4Cl4]2(.mu.-C2O4)} and		

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73	Structural Mapping and Framework Interconversions in 1D, 2D, and 3D Divalent Metal R,S-Hydroxyphosphonoacetate Hybrids. Inorganic Chemistry, 2010, 49, 761-768.	4.0	33
74	Syntheses and Structural Characterization of a New Class of Double Cubanes That Contain MoFe3S4 Subunits and Molybdenum-Coordinated, Bridging Mercapto-Carboxylate Ligands. Effective Catalysts for the Reduction of Hydrazine to Ammonia. Inorganic Chemistry, 1994, 33, 4195-4197.	4.0	32
75	Single-Crystalline Thin Films by a Rare Molecular Calcium Carboxyphosphonate Trimer Offer Prophylaxis From Metallic Corrosion. ACS Applied Materials & Interfaces, 2010, 2, 1814-1816.	8.0	32
76	Common Structural Features in Calcium Hydroxyphosphonoacetates. A High-Throughput Screening. Crystal Growth and Design, 2011, 11, 1713-1722.	3.0	32
77	Crystal engineering in confined spaces. A novel method to grow crystalline metal phosphonates in alginate gel systems. CrystEngComm, 2012, 14, 5385.	2.6	32
78	Disruption of â€œCoordination Polymerâ€•Architecture in Cu²⁺ Bis-Phosphonates and Carboxyphosphonates by Use of 2,2â€²-Bipyridine as Auxiliary Ligand: Structural Variability and Topological Analysis. Crystal Growth and Design, 2013, 13, 4480-4489.	3.0	32
79	Smart, programmable and responsive injectable hydrogels for controlled release of cargo osteoporosis drugs. Scientific Reports, 2017, 7, 4743.	3.3	31
80	Self-sacrificial MOFs for ultra-long controlled release of bisphosphonate anti-osteoporotic drugs. Chemical Communications, 2020, 56, 5166-5169.	4.1	31
81	Degradation of Phosphonateâ€Based Scale Inhibitor Additives in the Presence of Oxidizing Biocides: â€œCollateral Damagesâ€•in Industrial Water Systems. Separation Science and Technology, 2007, 42, 1639-1649.	2.5	29
82	Long-term doxorubicin release from multiple stimuli-responsive hydrogels based on Î±-amino-acid residues. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 424-433.	4.3	29
83	Chemistry of organophosphonate scale growth inhibitors: two-dimensional, layered polymeric networks in the structure of tetrasodium 2-hydroxyethyl-amino-bis(methylenephosphonate). Journal of Solid State Chemistry, 2004, 177, 4768-4776.	2.9	27
84	Chemistry of Organophosphonate Scale Inhibitors, Part 4: Stability of Amino-tris-(Methylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 T Related Elements, 2006, 181, 167-176.	1.6	27
85	Antiscalant-Driven Inhibition and Stabilization of â€œMagnesium Silicateâ€•under Geothermal Stresses: The Role of Magnesiumâ€“Phosphonate Coordination Chemistry. Energy & Fuels, 2018, 32, 11749-11760.	5.1	27
86	Uncharged Mixed-Ligand Clusters with the [Fe4S4]+ and [Fe4S4]2+ Cores. Synthesis, Structural Characterization, and Properties of the Fe4S4X(tBu3P)3 (X = Cl, Br, I) and Fe4S4(SPh)2(tBu3P)2 Cubanes. Inorganic Chemistry, 1995, 34, 4519-4520.	4.0	26
87	Divalent Metal Vinylphosphonate Layered Materials: Compositional Variability, Structural Peculiarities, Dehydration Behavior, and Photoluminescent Properties. Inorganic Chemistry, 2011, 50, 11202-11211.	4.0	25
88	Phosphorus chemistry: from small molecules, to polymers, to pharmaceutical and industrial applications. Pure and Applied Chemistry, 2019, 91, 421-441.	1.9	24
89	Vibrational and structural mapping of [Os(bpy)3]3+/2+ and [Os(phen)3]3+/2+. Inorganica Chimica Acta, 2007, 360, 1143-1153.	2.4	23
90	The precipitation of â€œmagnesium silicateâ€•under geothermal stresses. Formation and characterization. Geothermics, 2018, 74, 172-180.	3.4	23

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91	Structural Systematics and Topological Analysis of Coordination Polymers with Divalent Metals and a Glycine-Derived Tripodal Phosphonocarboxylate. Crystal Growth and Design, 2014, 14, 5234-5243.	3.0	22
92	Formation and Redox Reactivity of Osmium(II) Thionitrosyl Complexes. Inorganic Chemistry, 1999, 38, 3329-3336.	4.0	21
93	Additive-Driven Dissolution Enhancement of Colloidal Silica. 2. Environmentally Friendly Additives and Natural Products. Industrial & Engineering Chemistry Research, 2011, 50, 13866-13876.	3.7	21
94	Three-component 1D and 2D metal phosphonates: structural variability, topological analysis and catalytic hydrocarboxylation of alkanes. RSC Advances, 2017, 7, 17788-17799.	3.6	21
95	Homologous alkyl side-chain diphosphonate inhibitors for the corrosion protection of carbon steels. Chemical Engineering Journal, 2021, 405, 126864.	12.7	21
96	Inhibition of calcium phosphate-DNA coprecipitates induced cell death by phosphocitrates. Frontiers in Bioscience - Landmark, 2005, 10, 803.	3.0	20
97	Catalytic Effect of Magnesium Ions on Silicic Acid Polycondensation and Inhibition Strategies Based on Chelation. Industrial & Engineering Chemistry Research, 2012, 51, 9032-9040.	3.7	20
98	Cation effect on the inorganicâ€“organic layered structure of pyrazole-4-sulfonate networks and inhibitory effects on copper corrosion. New Journal of Chemistry, 2010, 34, 221.	2.8	19
99	Additive-Driven Dissolution Enhancement of Colloidal Silica. 1. Basic Principles and Relevance to Water Treatment. Industrial & Engineering Chemistry Research, 2011, 50, 12587-12595.	3.7	19
100	Additive-Driven Dissolution Enhancement of Colloidal Silica. 3. Fluorine-Containing Additives. Industrial & Engineering Chemistry Research, 2012, 51, 2952-2962.	3.7	19
101	Linking 31P Magnetic Shielding Tensors to Crystal Structures: Experimental and Theoretical Studies on Metal(II) Aminotris(methylenephosphonates). Inorganic Chemistry, 2012, 51, 11466-11477.	4.0	19
102	Synthesis and structural characterization of 2-D layered copper(II) styrylphosphonate coordination polymers. Journal of Coordination Chemistry, 2014, 67, 1562-1572.	2.2	19
103	Three-Component Copper-Phosphonate-Auxiliary Ligand Systems: Proton Conductors and Efficient Catalysts in Mild Oxidative Functionalization of Cycloalkanes. Inorganic Chemistry, 2018, 57, 10656-10666.	4.0	19
104	Structural architectures of charge-assisted, hydrogen-bonded, 2D layered amineâ‹¯tetraphosphonate and zincâ‹¯tetraphosphonate ionic materials. Polyhedron, 2009, 28, 3361-3367.	2.2	18
105	Calciumâ€”Phosphonate Interactions: Solution Behavior and Ca²⁺ Binding by 2-Hydroxyethylimino-bis(methylenephosphonate) Studied by Multinuclear NMR Spectroscopy. Inorganic Chemistry, 2009, 48, 4154-4164.	4.0	18
106	A cyclam-type â€œturn onâ€•fluorescent sensor selective for mercury ions in aqueous media. RSC Advances, 2012, 2, 12679.	3.6	18
107	2D Corrugated Magnesium Carboxyphosphonate Materials: Topotactic Transformations and Interlayer â€œDecorationâ€•with Ammonia. Inorganic Chemistry, 2012, 51, 7889-7896.	4.0	18
108	â€œGreenâ€•scale inhibitors in water treatment processes: the case of silica scale inhibition. Desalination and Water Treatment, 2015, 55, 749-755.	1.0	18

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109	Searching for a universal scale inhibitor: A multi-scale approach towards inhibitor efficiency. Geothermics, 2021, 89, 101954.	3.4	18
110	A universal scale inhibitor: A dual inhibition/dispersion performance evaluation under difficult brine stresses. Geothermics, 2021, 89, 101972.	3.4	18
111	A Novel Strategy for the Preparation of Naturally Occurring Phosphocitrate and Its Partially Esterified Derivatives. Journal of Organic Chemistry, 2007, 72, 1468-1471.	3.2	17
112	The synthesis, and properties of Fe/Mo/S clusters with MoFe3S4 cubane subunits, Mo bound bidentate oxalate ligands and terminal or bridging cyanide ligands. Structural characterization of 3147-3151.	2.2	16
113	Nucleation and crystal growth of barium sulfate: inhibition in the presence of rigid and flexible triphosphonate additives. CrystEngComm, 2018, 20, 6589-6601.	2.6	16
114	Chemistry of Organophosphonate Scale Growth Inhibitors: 2. Structural Aspects of 2-Phosphonobutane-1,2,4-Tricarboxylic Acid Monohydrate (PBTC.H2O). Bioinorganic Chemistry and Applications, 2005, 3, 119-134.	4.1	15
115	The Intimate Role of Imidazole in the Stabilization of Silicic Acid by a pH-Responsive, Histidine-Grafted Polyampholyte. Chemistry of Materials, 2015, 27, 6827-6836.	6.7	15
116	Novel Calcium Carboxyphosphonate/polycarboxylate Inorganicâ^'Organic Hybrid Materials from Demineralization of Calcitic Biomineral Surfaces. ACS Applied Materials & Interfaces, 2009, 1, 35-38.	8.0	14
117	Mapping the supramolecular chemistry of pyrazole-4-sulfonate: layered inorganicâ€“organic networks with Zn²⁺, Cd²⁺, Ag⁺, Na⁺and NH₄⁺, and their use in copper anticorrosion protective films. CrystEngComm, 2012, 14, 908-919.	2.6	14
118	Structural and redox chemistry of osmium(III) chloro complexes containing 2,2â€²:6â€²,2â€³-terpyridyl and tris-pyrazolyl borate ligands. Polyhedron, 1999, 18, 1587-1594.	2.2	13
119	Promiscuous stabilisation behaviour of silicic acid by cationic macromolecules: the case of phosphonium-grafted dicationic ethylene oxide bolaamphiphiles. RSC Advances, 2012, 2, 631-641.	3.6	13
120	Modified macromolecules in the prevention of silica scale. Pure and Applied Chemistry, 2016, 88, 1037-1047.	1.9	13
121	From light to heavy alkali metal tetraphosphonates (M = Li, Na, K, Rb, Cs): cation size-induced structural diversity and water-facilitated proton conductivity. CrystEngComm, 2018, 20, 7648-7658.	2.6	13
122	Structure and in vivo anticalcification properties of a polymeric calciumâ€“sodiumâ€“phosphocitrate organicâ€“inorganic hybrid. Inorganic Chemistry Communication, 2003, 6, 527-530.	3.9	12
123	An Unusual Michael-Induced Skeletal Rearrangement of a Bicyclo[3.3.1]nonane Framework of Phloroglucinols to a Novel Bioactive Bicyclo[3.3.0]octane. Organic Letters, 2013, 15, 5404-5407.	4.6	12
124	Synthesis and Characterization of a Novel Phosphonate Metal Organic Framework Starting from Copper Salts. Phosphorus, Sulfur and Silicon and the Related Elements, 2014, 189, 630-639.	1.6	12
125	Editorial: Phosphonate Chemistry in Drug Design and Development. Frontiers in Chemistry, 2021, 9, 695128.	3.6	12
126	Naturally derived and synthetic polymers as biomimetic enhancers of silicic acid solubility in (bio)silicification processes. Pure and Applied Chemistry, 2014, 86, 1663-1674.	1.9	11

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127	The precipitation of â€œaluminum silicateâ€•under geothermal stresses: Identifying its idiosyncrasies. Geothermics, 2021, 92, 102060.	3.4	11
128	Laser-assisted removal of dark cement crusts from mineral gypsum (selenite) architectural elements of peripheral monuments at Knossos. Studies in Conservation, 2015, 60, S3-S11.	1.1	10
129	Structural variability in M²⁺ 2-hydroxyphosphonoacetate moderate proton conductors. Pure and Applied Chemistry, 2017, 89, 75-87.	1.9	10
130	Phosphonate Decomposition-Induced Polyoxomolybdate Dumbbell-Type Cluster Formation: Structural Analysis, Proton Conduction, and Catalytic Sulfoxide Reduction. Inorganic Chemistry, 2019, 58, 11522-11533.	4.0	10
131	Platonic Relationships in Metal Phosphonate Chemistry: Ionic Metal Phosphonates. Crystals, 2019, 9, 301.	2.2	10
132	Calcium and Strontium Coordination Polymers as Controlled Delivery Systems of the Anti-Osteoporosis Drug Risedronate and the Augmenting Effect of Solubilizers. Applied Sciences (Switzerland), 2021, 11, 11383.	2.5	10
133	NH3/H2O-mediated proton conductivity and photocatalytic behaviour of Fe(ii)-hydroxyphosphonoacetate and M(ii)-substituted derivatives. Dalton Transactions, 2020, 49, 3981-3988.	3.3	9
134	Structure-Dependent Dissolution and Restructuring of Calcite Surfaces by Organophosphonates. Crystal Growth and Design, 2017, 17, 5867-5874.	3.0	8
135	Cu^{II} Frameworks from Diâ€2â€pyridyl Ketone and Benzeneâ€1,3,5â€triphosphonic Acid. European Journal of Inorganic Chemistry, 2018, 2018, 91-98.	2.0	8
136	Mineralogical Characterization and Firing Temperature Delineation on Minoan Pottery, Focusing on the Application of Micro-Raman Spectroscopy. Heritage, 2019, 2, 2652-2664.	1.9	8
137	Exploiting the Multifunctionality of M²⁺/Imidazoleâ€“Etidronates for Proton Conductivity (Zn²⁺) and Electrocatalysis (Co²⁺, Ni²⁺) toward the HER, OER, and ORR. ACS Applied Materials & Interfaces, 2022, 14, 11273-11287.	8.0	8
138	Pleiotropic Role of Recombinant Silaffinâ€Like Cationic Polypeptide P5S3: Peptideâ€Induced Silicic Acid Stabilization, Silica Formation and Inhibition of Silica Dissolution. ChemistrySelect, 2017, 2, 6-17.	1.5	7
139	Phase Transformation Dynamics in Sulfate-Loaded Lanthanide Triphosphonates. Proton Conductivity and Application as Fillers in PEMFCs. ACS Applied Materials & Interfaces, 2021, 13, 15279-15291.	8.0	7
140	Phosphocitrate, A Potential Therapeutic Agent for Calcium Crystal Deposition Diseases. Current Rheumatology Reviews, 2006, 2, 95-99.	0.8	6
141	Chemical Methods for Scaling Control. , 2020, , 307-342.		5
142	Biosilica: Structure, function, science, technology, and inspiration. American Mineralogist, 2018, 103, 1009-1010.	1.9	4
143	High-Throughput Synthesis of Pillared-Layered Magnesium Tetraphosphonate Coordination Polymers: Framework Interconversions and Proton Conductivity Studies. Inorganics, 2018, 6, 96.	2.7	4
144	New evidence about the use of serpentinite in the Minoan architecture. A Î¼-Raman based study of the â€œHouse of the High Priestâ€•drain in Knossos. Journal of Archaeological Science: Reports, 2017, 16, 316-321.	0.5	3

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145	Pleiotropic action of pH-responsive poly(pyridine/PEG) copolymers in the stabilization of silicic acid or the enhancement of its polycondensation. Reactive and Functional Polymers, 2020, 157, 104775.	4.1	3
146	Silica-Based Polymeric Gels as Platforms for Delivery of Phosphonate Pharmaceutics. Gels Horizons: From Science To Smart Materials, 2018, , 127-140.	0.3	3
147	Layered Inorganicâ€“Organic 3,5-Dimethylpyrazole-4-Sulfonate Films for Protection of Copper Surfaces against Corrosion. Crystal Growth and Design, 2021, 21, 5421-5439.	3.0	2
148	Comparative Performance of Tetraphosphonate and Diphosphonate as Reverse Osmosis Scale Inhibitors. MATEC Web of Conferences, 2018, 251, 03049.	0.2	1
149	The fully deprotonated anion of 1,3,5-benzene-triphosphonic acid: 1H, 31P, and 13C{1H} NMR and some comments on corresponding [AX]3 and AXXâ€²2 spin systems and spectra. Phosphorus, Sulfur and Silicon and the Related Elements, 2020, 195, 830-835.	1.6	0
150	5-Phenyl-3-(2-phosphonoethyl)-1,2,3-triazol-1-ium chloride. IUCrData, 2022, 7, .	0.3	0
151	catena-Poly[oxidanium [tris{Î¼-[amino(iminio)methyl]phosphonato}zincate(II)]]. IUCrData, 2022, 7, .	0.3	0