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	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
2	5-Phenyl-3-(2-phosphonoethyl)-1,2,3-triazol-1-ium chloride. IUCrData, 2022, 7, .	0.3	0
3	<i>catena</i>-Poly[oxidanium [tris{Î¼-[amino(iminio)methyl]phosphonato}zincate(II)]]. IUCrData, 2022, 7, .	0.3	0
4	Searching for a universal scale inhibitor: A multi-scale approach towards inhibitor efficiency. Geothermics, 2021, 89, 101954.	3.4	18
5	A universal scale inhibitor: A dual inhibition/dispersion performance evaluation under difficult brine stresses. Geothermics, 2021, 89, 101972.	3.4	18
6	Homologous alkyl side-chain diphosphonate inhibitors for the corrosion protection of carbon steels. Chemical Engineering Journal, 2021, 405, 126864.	12.7	21
7	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
8	Editorial: Phosphonate Chemistry in Drug Design and Development. Frontiers in Chemistry, 2021, 9, 695128.	3.6	12
9	The precipitation of â€œaluminum silicateâ€•under geothermal stresses: Identifying its idiosyncrasies. Geothermics, 2021, 92, 102060.	3.4	11
10	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
11	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
12	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
13	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
14	Self-sacrificial MOFs for ultra-long controlled release of bisphosphonate anti-osteoporotic drugs. Chemical Communications, 2020, 56, 5166-5169.	4.1	31
15	Chemical Methods for Scaling Control. , 2020, , 307-342.		5
16	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
17	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
18	Layered Lanthanide Sulfophosphonates and Their Proton Conduction Properties in Membrane Electrode Assemblies. Chemistry of Materials, 2019, 31, 9625-9634.	6.7	34

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19	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
20	New Directions in Metal Phosphonate and Phosphinate Chemistry. Crystals, 2019, 9, 270.	2.2	81
21	Platonic Relationships in Metal Phosphonate Chemistry: Ionic Metal Phosphonates. Crystals, 2019, 9, 301.	2.2	10
22	Phosphorus chemistry: from small molecules, to polymers, to pharmaceutical and industrial applications. Pure and Applied Chemistry, 2019, 91, 421-441.	1.9	24
23	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
24	The precipitation of â€œmagnesium silicateâ€•under geothermal stresses. Formation and characterization. Geothermics, 2018, 74, 172-180.	3.4	23
25	Biosilica: Structure, function, science, technology, and inspiration. American Mineralogist, 2018, 103, 1009-1010.	1.9	4
26	Comparative Performance of Tetraphosphonate and Diphosphonate as Reverse Osmosis Scale Inhibitors. MATEC Web of Conferences, 2018, 251, 03049.	0.2	1
27	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
28	High-Throughput Synthesis of Pillared-Layered Magnesium Tetraphosphonate Coordination Polymers: Framework Interconversions and Proton Conductivity Studies. Inorganics, 2018, 6, 96.	2.7	4
29	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
30	Corrosion protection of carbon steel by tetraphosphonates of systematically different molecular size. Corrosion Science, 2018, 145, 135-150.	6.6	51
31	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
32	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
33	Silica-Based Polymeric Gels as Platforms for Delivery of Phosphonate Pharmaceutics. Gels Horizons: From Science To Smart Materials, 2018, , 127-140.	0.3	3
34	Structural variability in M²⁺ 2-hydroxyphosphonoacetate moderate proton conductors. Pure and Applied Chemistry, 2017, 89, 75-87.	1.9	10
35	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
36	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

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37	Structure-Dependent Dissolution and Restructuring of Calcite Surfaces by Organophosphonates. Crystal Growth and Design, 2017, 17, 5867-5874.	3.0	8
38	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
39	Smart, programmable and responsive injectable hydrogels for controlled release of cargo osteoporosis drugs. Scientific Reports, 2017, 7, 4743.	3.3	31
40	Luminescent and Proton Conducting Lanthanide Coordination Networks Based On a Zwitterionic Tripodal Triphosphonate. Inorganic Chemistry, 2016, 55, 7414-7424.	4.0	57
41	Modified macromolecules in the prevention of silica scale. Pure and Applied Chemistry, 2016, 88, 1037-1047.	1.9	13
42	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
43	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
44	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
45	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
46	Synthesis and structural characterization of 2-D layered copper(II) styrylphosphonate coordination polymers. Journal of Coordination Chemistry, 2014, 67, 1562-1572.	2.2	19
47	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
48	Guest Molecule-Responsive Functional Calcium Phosphonate Frameworks for Tuned Proton Conductivity. Journal of the American Chemical Society, 2014, 136, 5731-5739.	13.7	206
49	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
50	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
51	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
52	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
53	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
54	Structural Variability in Multifunctional Metal Xylenediaminetetraphosphonate Hybrids. Inorganic Chemistry, 2013, 52, 8770-8783.	4.0	46

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55	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
56	A cyclam-type â€œturn onâ€•fluorescent sensor selective for mercury ions in aqueous media. RSC Advances, 2012, 2, 12679.	3.6	18
57	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
58	Multifunctional lanthanum tetraphosphonates: Flexible, ultramicroporous and proton-conducting hybrid frameworks. Dalton Transactions, 2012, 41, 4045.	3.3	85
59	Additive-Driven Dissolution Enhancement of Colloidal Silica. 3. Fluorine-Containing Additives. Industrial & Engineering Chemistry Research, 2012, 51, 2952-2962.	3.7	19
60	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
61	Crystal engineering in confined spaces. A novel method to grow crystalline metal phosphonates in alginate gel systems. CrystEngComm, 2012, 14, 5385.	2.6	32
62	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
63	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
64	High Proton Conductivity in a Flexible, Cross-Linked, Ultramicroporous Magnesium Tetraphosphonate Hybrid Framework. Inorganic Chemistry, 2012, 51, 7689-7698.	4.0	118
65	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
66	2D Corrugated Magnesium Carboxyphosphonate Materials: Topotactic Transformations and Interlayer â€œDecorationâ€•with Ammonia. Inorganic Chemistry, 2012, 51, 7889-7896.	4.0	18
67	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
68	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
69	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
70	Common Structural Features in Calcium Hydroxyphosphonoacetates. A High-Throughput Screening. Crystal Growth and Design, 2011, 11, 1713-1722.	3.0	32
71	Controlled Release of Bis(phosphonate) Pharmaceuticals from Cationic Biodegradable Polymeric Matrices. Industrial & Engineering Chemistry Research, 2011, 50, 5873-5876.	3.7	72
72	Divalent Metal Vinylphosphonate Layered Materials: Compositional Variability, Structural Peculiarities, Dehydration Behavior, and Photoluminescent Properties. Inorganic Chemistry, 2011, 50, 11202-11211.	4.0	25

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73	Stepwise Topotactic Transformations (1D to 3D) in Copper Carboxyphosphonate Materials: Structural Correlations. Crystal Growth and Design, 2010, 10, 357-364.	3.0	43
74	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
75	Structural Mapping and Framework Interconversions in 1D, 2D, and 3D Divalent Metal <i>R,S</i>-Hydroxyphosphonoacetate Hybrids. Inorganic Chemistry, 2010, 49, 761-768.	4.0	33
76	Modern Views on Desilicification: Biosilica and Abiotic Silica Dissolution in Natural and Artificial Environments. Chemical Reviews, 2010, 110, 4656-4689.	47.7	215
77	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
78	â€œBreathingâ€•in Adsorbateâ€Responsive Metal Tetraphosphonate Hybrid Materials. Chemistry - A European Journal, 2009, 15, 6612-6618.	3.3	40
79	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
80	Principles of demineralization: Modern strategies for the isolation of organic frameworks. Micron, 2009, 40, 169-193.	2.2	97
81	Structural architectures of charge-assisted, hydrogen-bonded, 2D layered amineâ‹¯tetraphosphonate and zincâ‹¯tetraphosphonate ionic materials. Polyhedron, 2009, 28, 3361-3367.	2.2	18
82	Inorganicâˆ’Organic Hybrid Molecular Ribbons Based on Chelating/Bridging, â€œPincerâ€• Tetraphosphonates, and Alkaline-Earth Metals. Crystal Growth and Design, 2009, 9, 1250-1253.	3.0	35
83	Calciumâˆ’Phosphonate Interactions: Solution Behavior and Ca²⁺ Binding by 2-Hydroxyethylimino-<i>bis</i>(methylenephosphonate) Studied by Multinuclear NMR Spectroscopy. Inorganic Chemistry, 2009, 48, 4154-4164.	4.0	18
84	A Short Biomimetic Approach to the Fully Functionalized Bicyclic Framework of Type A Acylphloroglucinols. Organic Letters, 2009, 11, 4430-4433.	4.6	35
85	Metal Tetraphosphonate â€œWiresâ€•and Their Corrosion Inhibiting Passive Films. Inorganic Chemistry, 2009, 48, 819-821.	4.0	38
86	Novel Calcium Carboxyphosphonate/polycarboxylate Inorganicâˆ’Organic Hybrid Materials from Demineralization of Calcitic Biomineral Surfaces. ACS Applied Materials & Interfaces, 2009, 1, 35-38.	8.0	14
87	Polymorphism, Composition, and Structural Variability in Topology in 1D, 2D, and 3D Copper Phosphonocarboxylate Materials. Crystal Growth and Design, 2009, 9, 1811-1822.	3.0	36
88	Systematic Structural Determinants of the Effects of Tetraphosphonates on Gypsum Crystallization. Crystal Growth and Design, 2009, 9, 5145-5154.	3.0	80
89	STRUCTURAL MAPPING OF HYBRID METAL PHOSPHONATE CORROSION INHIBITING THIN FILMS. Comments on Inorganic Chemistry, 2009, 30, 89-118.	5.2	35
90	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

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91	Principles of demineralization: Modern strategies for the isolation of organic frameworks. Micron, 2008, 39, 1062-1091.	2.2	76
92	Being â€œgreenâ€•in chemical water treatment technologies: issues, challenges and developments. Desalination, 2008, 223, 487-493.	8.2	96
93	Enhancement of silicate solubility by use of â€œgreenâ€•additives: linking green chemistry and chemical water treatment. Desalination, 2008, 224, 223-230.	8.2	33
94	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
95	Inhibitory Effects of Multicomponent, Phosphonate-Grafted, Zwitterionic Chitosan Biomacromolecules on Silicic Acid Condensation. Biomacromolecules, 2008, 9, 3288-3293.	5.4	46
96	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
97	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
98	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
99	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
100	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
101	The Effect of Citrate and Phosphocitrate On Struvite Spontaneous Precipitation. Crystal Growth and Design, 2007, 7, 2705-2712.	3.0	52
102	Industrial water systems: problems, challenges and solutions for the process industries. Desalination, 2007, 213, 38-46.	8.2	105
103	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
104	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
105	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
106	Effects of Structural Differences on Metallic Corrosion Inhibition by Metalâ^'Polyphosphonate Thin Films. Industrial & Engineering Chemistry Research, 2006, 45, 7795-7800.	3.7	58
107	Alkaline Earth Metal Organotriphosphonates:â€‰ Inorganicâ^'Organic Polymeric Hybrids from Dicationâ^'Dianion Association. Crystal Growth and Design, 2006, 6, 836-838.	3.0	51
108	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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109	Phosphonopolycarboxylates as Chemical Additives for Calcite Scale Dissolution and Metallic Corrosion Inhibition Based on a Calcium-Phosphonotricarboxylate Organicâˆ'Inorganic Hybrid. Crystal Growth and Design, 2006, 6, 1064-1067.	3.0	62
110	Phosphocitrate, A Potential Therapeutic Agent for Calcium Crystal Deposition Diseases. Current Rheumatology Reviews, 2006, 2, 95-99.	0.8	6
111	Chemistry of Organophosphonate Scale Inhibitors, Part 4: Stability of Amino-tris-(Methylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Related Elements, 2006, 181, 167-176.	1.6	27
112	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
113	Inorganic foulants in membrane systems: chemical control strategies and the contribution of â€œgreen chemistryâ€. Desalination, 2005, 179, 281-295.	8.2	80
114	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
115	Green additives to enhance silica dissolution during water treatment. Environmental Chemistry Letters, 2005, 3, 127-131.	16.2	47
116	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
117	Chemistry of Organophosphonate Scale Growth Inhibitors: 3. Physicochemical Aspects of 2-Phosphonobutane-1,2,4-Tricarboxylate (PBTC) And Its Effect on CaCO3 Crystal Growth. Bioinorganic Chemistry and Applications, 2005, 3, 135-149.	4.1	36
118	Inhibition of calcium phosphate-DNA coprecipitates induced cell death by phosphocitrates. Frontiers in Bioscience - Landmark, 2005, 10, 803.	3.0	20
119	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
120	Metalâˆ'Organotetraphosphonate Inorganicâˆ'Organic Hybrids:Â Crystal Structure and Anticorrosion Effects of Zinc Hexamethylenediaminetetrakis(methylenephosphonate) on Carbon Steels. Inorganic Chemistry, 2005, 44, 4469-4471.	4.0	58
121	METAL-PHOSPHONATE CHEMISTRY: SYNTHESIS, CRYSTAL STRUCTURE OF CALCIUM-AMINOTRIS -(METHYLENE) Tj ETQq1 1 0.784314 Related Elements, 2004, 179, 627-648.	1.6	117
122	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
123	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
124	Silica scale inhibition by polyaminoamide STARBURSTÂ® dendrimers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 242, 213-216.	4.7	61
125	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
126	The Localized-to-Delocalized Transition in Mixed-Valence Chemistry. Chemical Reviews, 2001, 101, 2655-2686.	47.7	966

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127	Reversible Osmium(VI) Nitrido to Osmium(II) Ammine Interconversion in Complexes Containing Polypyrazolyl Ligands. Inorganic Chemistry, 2001, 40, 3677-3686.	4.0	34
128	A Crystallographically Characterized Nine-Coordinate Calciumâ˜'Phosphocitrate Complex as Calcification Inhibitor in Vivo. Journal of the American Chemical Society, 2001, 123, 10129-10130.	13.7	37
129	Mechanism and Moleculerâ˜'Electronic Structure Correlations in a Novel Series of Osmium(V) Hydrazido Complexes. Inorganic Chemistry, 2000, 39, 3075-3085.	4.0	48
130	Oxidation of Ammonia in Osmium Polypyridyl Complexes. Inorganic Chemistry, 2000, 39, 2212-2223.	4.0	33
131	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
132	Oxo-Like Reactivity of High Oxidation State Osmium Hydrazido Complexes. Journal of the American Chemical Society, 1999, 121, 1403-1404.	13.7	50
133	OsIII(N2)OsIIComplexes at the Localized-to-Delocalized, Mixed-Valence Transition. Journal of the American Chemical Society, 1999, 121, 535-544.	13.7	98
134	Intervalence Transfer at the Localized-to-Delocalized, Mixed-Valence Transition in Osmium Polypyridyl Complexes. Inorganic Chemistry, 1999, 38, 5948-5959.	4.0	60
135	Formation and Redox Reactivity of Osmium(II) Thionitrosyl Complexes. Inorganic Chemistry, 1999, 38, 3329-3336.	4.0	21
136	Nitrogen atom transfer and redox chemistry of terpyridyl phosphoraniminato complexes of osmium (IV). Inorganica Chimica Acta, 1998, 270, 511-526.	2.4	46
137	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
138	Vibrational Mapping at the Mixed-Valence, Localized-to-Delocalized Transition. Journal of the American Chemical Society, 1998, 120, 7121-7122.	13.7	45
139	Reactivity of Osmium(VI) Nitrides with the Azide Ion. Inorganic Chemistry, 1998, 37, 838-839.	4.0	51
140	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
141	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
142	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
143	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
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#	Article	IF	Citations
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