Pilar Pertierra

List of Publications by Year
in descending order

47	773	516710 16	552781 26
papers	citations	h-index	g-index

55	55	55	773
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Denser than diamond:Ab initiosearch for superdense carbon allotropes. Physical Review B, 2011, 83, .	3.2	118
2	First [4 + 3] Annulation of Alkynyl Fischer Carbene Complexes and Azadienes. X-ray Structure of a Metalated Zwitterionic Intermediate. Journal of the American Chemical Society, 1996, 118, 695-696.	13.7	57
3	Alkenyl Fischer Carbene Complexes and Î±,Î²â€Unsaturated Imine Derivatives: Synthesis of Azepines and Mechanistic NMR Studies. Chemistry - A European Journal, 1996, 2, 88-97.	3.3	50
4	Synthesis, characterization, and structural study of K2FeZrP3O12 with the langbeinite structure. Journal of Solid State Chemistry, 2003, 173, 314-318.	2.9	42
5	Neutron powder diffraction study of Î±-Ti(HPO4)2.H2O and Î±-Hf(HPO4)2.H2O; H-atom positions. Acta Crystallographica Section B: Structural Science, 1996, 52, 896-898.	1.8	32
6	An expeditious stereoselective synthesis of functionalized seven-membered carbocycles by reaction of 2-aminobuta-1,3-dienes with vinylchromium fischer type carbenes. Journal of the Chemical Society Chemical Communications, 1993, , 319-321.	2.0	29
7	Layered acid arsenates Î±-M(HAsO4)2Â·H2O (M=Ti, Sn, Pb): synthesis optimization and crystal structures. Journal of Molecular Structure, 1998, 470, 93-104.	3.6	28
8	Crystal Structure of a Cerium(IV) Bis(phosphate) Derivative. Journal of the American Chemical Society, 2007, 129, 10970-10971.	13.7	28
9	Generalized Stress-Redox Equivalence: A Chemical Link between Pressure and Electronegativity in Inorganic Crystals. Inorganic Chemistry, 2020, 59, 5281-5291.	4.0	21
10	New Hydrothermal Synthesis and Structure of Th2(PO4)2(HPO4)Â·H2O:â€‰ the First Structurally Characterized Thorium Hydrogenphosphate. Inorganic Chemistry, 2005, 44, 3512-3517.	4.0	20
11	Chemical Pressure Maps of Molecules and Materials: Merging the Visual and Physical in Bonding Analysis. Journal of Chemical Theory and Computation, 2018, 14, 104-114.	5.3	20
12	Neutron Powder Diffraction Study of Ti2(OH)2OSiO4Â·1.5H2O. Inorganic Chemistry, 1999, 38, 2563-2566.	4.0	19
13	Hydrothermal Synthesis and Structure of Fe(NH3)2PO4:Â A Novel Monophosphate. Inorganic Chemistry, 1999, 38, 5944-5947.	4.0	19
14	Synthesis of a Mineralâ^'Organic Hybrid by Treatment of Phlogopite with Phenylphosphonic Acid. Chemistry of Materials, 2001, 13, 4457-4462.	6.7	18
15	Synthesis, Characterization, and X-Ray Powder Structure of K2ZrGe2O7. Journal of Solid State Chemistry, 1999, 148, 41-49.	2.9	17
16	Photochemical ligand rearrangement in dirhodium(II) compounds. Structure of Rh2(O2CCH3)2(Î·2-O2CCH3)[(C6H4)PPh2] (Î·2-PCCl)(PCClî—»P-ClC6H4)Ph2. Inorganica Chimica Acta, 1995, 229, 203-209.	2.4	16
17	Novel Silicate Anion:Â Si8O2212-. Hydrothermal Synthesis and X-ray Powder Structure of Three New Niobium Silicates. Inorganic Chemistry, 2001, 40, 4368-4373.	4.0	16
18	Thermal behavior of K2MSi3O9Â·H2O with the structure of umbite (M = Sn) and kostylevite (M = Pb) minerals. Thermochimica Acta, 2004, 423, 113-119.	2.7	15

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19	Understanding Chemical Changes across the Î±-Cristobalite to Stishovite Transition Path in Silica. Journal of Physical Chemistry C, 2013, 117, 8950-8958.	3.1	15
20	Phosphorous Acid and Urea: Valuable Sources of Phosphorus and Nitrogen in the Hydrothermal Synthesis of Ammonium-Thorium Phosphates. Inorganic Chemistry, 2008, 47, 7207-7210.	4.0	14
21	Synthesis, structure, and reactivity of the first diazagermocines. Organometallics, 1992, 11, 2348-2350.	2.3	13
22	Synthesis and Crystal Structure of Thorium Bis(hydrogenphosphate) Monohydrate. Inorganic Chemistry, 2008, 47, 1246-1248.	4.0	12
23	Intramolecular nucleophilic attack on cationic iron(II) vinylidene complexes: Synthesis and crystal structure of the alkenyl [H] containing an unprecedented bicyclopentane ring system. Journal of Organometallic Chemistry, 1992, 429, C19-C25.	1.8	11
24	Theoretical Study of P₂O₅ Polymorphs at High Pressure: Hexacoordinated Phosphorus. Inorganic Chemistry, 2008, 47, 4884-4890.	4.0	11
25	Decoupled structural and non-collinear magnetic phase transitions in Fe(ND3)2PO4. Acta Materialia, 2010, 58, 1741-1749.	7.9	10
26	A homoleptic (aryl isocyanide)iron(0) dimer. X-ray structure determination of nonakis(phenyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	2.3	9
27	Hydrothermal synthesis and structural characterization of framework microporous mixed tinâ€“zirconium silicates with the structure of umbite. Inorganic Chemistry Communication, 2002, 5, 824-828.	3.9	9
28	Synthesis and Characterization of Î±-Titanium Phosphate/Propylamine Intercalation Compounds Containing Transition-Metal Ions. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 2174-2180.	1.2	9
29	Synthesis of three-dimensional compounds from alkali-metal ion-exchanged Î³-titanium phosphate. Journal of Materials Chemistry, 1996, 6, 415-419.	6.7	8
30	Supramolecular open-framework based on 1-D iron phosphateâ€“diphosphate chains assembled through hydrogen bonding. Journal of Solid State Chemistry, 2008, 181, 1103-1109.	2.9	8
31	Structural and magnetic phases of Fe(ND3)2PO4. Journal of Physics Condensed Matter, 2008, 20, 104227.	1.8	8
32	Hysteresis and bonding reconstruction in the pressure-induced B3â€“B1 phase transition of 3C-SiC. Physical Chemistry Chemical Physics, 2017, 19, 22887-22894.	2.8	8
33	Hydrogen bond network of the layered phosphates Î³-Zr(H2PO4)(PO4)â‹…2H2O and Î³-Hf(H2PO4)(PO4)â‹…2H2O determined by neutron powder diffraction. Zeitschrift Fur Kristallographie - Crystalline Materials, 2001, 216, .	0.8	7
34	Structure and bonding in crystalline cesium uranyl tetrachloride under pressure. Physical Chemistry Chemical Physics, 2016, 18, 18398-18405.	2.8	7
35	Hydrothermal synthesis and characterization of an ammoniumtitanium(IV) phosphate with pyrochlore-type structure. Inorganic Chemistry Communication, 2001, 4, 555-557.	3.9	6
36	Synthesis and structural study of K2PbSi3O9Â·H2O with the structure of kostylevite. Materials Research Bulletin, 2001, 36, 717-725.	5.2	6

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37	Hydrothermal synthesis and X-ray powder structure determination of a novel layered tin(IV) phosphate, Sn(HPO4)2Â·(NH3)0.4(H2O)0.6. Inorganic Chemistry Communication, 2002, 5, 685-689.	3.9	6
38	Layered mixed tin-titanium phosphates. Journal of Materials Research, 1998, 13, 754-759.	2.6	5
39	Reaction of Ï€-Ti2O(PO4)2Â·2H2O with molten alkali nitrates. Materials Research Bulletin, 2002, 37, 1381-1392.	5.2	5
40	Synthesis, Structure and Magnetic Characterization of Two Phosphate Compounds Related with the Mineral Struvite: KNiPO4Î¼Â·Î¼6H2O and NaNiPO4Î¼Â·Î¼7H2O. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 1932-1936.	1.2	5
41	Bis(2-amino-4-chloromethylthiazolium) Tetrachlorocuprate at 200 and 100K and Bis(2-amino-4-methylthiazolium) Tetrachlorocuprate at 100K. Acta Crystallographica Section C: Crystal Structure Communications, 1996, 52, 1412-1415.	0.4	3
42	Synthesis, crystal structure and intercalation behaviour of hafnium phosphate dihydrogenphosphate dihydrate. Journal of the Chemical Society Dalton Transactions, 1998, , 99-102.	1.1	3
43	Synthesis, crystal structure and intercalation behaviour of hafnium phosphate dihydrogenphosphate dihydrate. Journal of the Chemical Society Dalton Transactions, 1998, , 99-102.	1.1	3
44	Pressure and temperature stability boundaries of cubic SiC polymorphs: a first-principles investigation. Physical Chemistry Chemical Physics, 2022, 24, 16228-16236.	2.8	3
45	Neutron powder diffraction study of Î±-Ti(HPO4)2.H2O and Î±-Hf(HPO4)2.H2O; H-atom positions. Erratum. Acta Crystallographica Section B: Structural Science, 1997, 53, 188-188.	1.8	2
46	Publisherâ€™s Note: Denser than diamond:Ab initiosearch for superdense carbon allotropes [Phys. Rev. B83, 193410 (2011)]. Physical Review B, 2011, 83, .	3.2	1
47	New Hydrothermal Synthesis and Structure of Th2(PO4)2 (HPO4)Ã—H2O: The First Structurally Characterized Thorium Hydrogenphosphate.. ChemInform, 2005, 36, no.	0.0	0