

Pilar Pertierra

List of Publications by Year in descending order

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47
papers

773
citations

516710

16
h-index

552781

26
g-index

55
all docs

55
docs citations

55
times ranked

773
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure and temperature stability boundaries of cubic SiC polymorphs: a first-principles investigation. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 16228-16236.	2.8	3
2	Generalized Stress-Redox Equivalence: A Chemical Link between Pressure and Electronegativity in Inorganic Crystals. <i>Inorganic Chemistry</i> , 2020, 59, 5281-5291.	4.0	21
3	Chemical Pressure Maps of Molecules and Materials: Merging the Visual and Physical in Bonding Analysis. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 104-114.	5.3	20
4	Hysteresis and bonding reconstruction in the pressure-induced B3 \leftrightarrow B1 phase transition of 3C-SiC. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22887-22894.	2.8	8
5	Structure and bonding in crystalline cesium uranyl tetrachloride under pressure. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18398-18405.	2.8	7
6	Understanding Chemical Changes across the $\hat{\Gamma}$ -Cristobalite to Stishovite Transition Path in Silica. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8950-8958.	3.1	15
7	Publisher's Note: Denser than diamond: <i>Ab initio</i> search for superdense carbon allotropes [Phys. Rev. B, 193410 (2011)]. <i>Physical Review B</i> , 2011, 83, .	3.2	1
8	Denser than diamond: <i>Ab initio</i> search for superdense carbon allotropes. <i>Physical Review B</i> , 2011, 83, .	3.2	118
9	Decoupled structural and non-collinear magnetic phase transitions in Fe(ND ₃) ₂ PO ₄ . <i>Acta Materialia</i> , 2010, 58, 1741-1749.	7.9	10
10	Supramolecular open-framework based on 1-D iron phosphate diphosphate chains assembled through hydrogen bonding. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1103-1109.	2.9	8
11	Synthesis and Crystal Structure of Thorium Bis(hydrogenphosphate) Monohydrate. <i>Inorganic Chemistry</i> , 2008, 47, 1246-1248.	4.0	12
12	Phosphorous Acid and Urea: Valuable Sources of Phosphorus and Nitrogen in the Hydrothermal Synthesis of Ammonium-Thorium Phosphates. <i>Inorganic Chemistry</i> , 2008, 47, 7207-7210.	4.0	14
13	Theoretical Study of P ₂ O ₅ Polymorphs at High Pressure: Hexacoordinated Phosphorus. <i>Inorganic Chemistry</i> , 2008, 47, 4884-4890.	4.0	11
14	Structural and magnetic phases of Fe(ND ₃) ₂ PO ₄ . <i>Journal of Physics Condensed Matter</i> , 2008, 20, 104227.	1.8	8
15	Crystal Structure of a Cerium(IV) Bis(phosphate) Derivative. <i>Journal of the American Chemical Society</i> , 2007, 129, 10970-10971.	13.7	28
16	Synthesis, Structure and Magnetic Characterization of Two Phosphate Compounds Related with the Mineral Struvite: KNiPO ₄ · $\frac{1}{4}$ H ₂ O and NaNiPO ₄ · $\frac{1}{4}$ H ₂ O. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2007, 633, 1932-1936.	1.2	5
17	New Hydrothermal Synthesis and Structure of Th ₂ (PO ₄) ₂ (HPO ₄) \cdot H ₂ O: The First Structurally Characterized Thorium Hydrogenphosphate.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
18	Synthesis and Characterization of $\hat{\Gamma}$ -Titanium Phosphate/Propylamine Intercalation Compounds Containing Transition-Metal Ions. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2174-2180.	1.2	9

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19	New Hydrothermal Synthesis and Structure of $\text{Th}_2(\text{PO}_4)_2(\text{HPO}_4) \cdot 2\text{H}_2\text{O}$: the First Structurally Characterized Thorium Hydrogenphosphate. <i>Inorganic Chemistry</i> , 2005, 44, 3512-3517.	4.0	20
20	Thermal behavior of $\text{K}_2\text{MSi}_3\text{O}_9 \cdot \text{H}_2\text{O}$ with the structure of umbite (M = Sn) and kostylevite (M = Pb) minerals. <i>Thermochimica Acta</i> , 2004, 423, 113-119.	2.7	15
21	Synthesis, characterization, and structural study of $\text{K}_2\text{FeZrP}_3\text{O}_{12}$ with the langbeinite structure. <i>Journal of Solid State Chemistry</i> , 2003, 173, 314-318.	2.9	42
22	Reaction of $\text{Ti}_2\text{O}(\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$ with molten alkali nitrates. <i>Materials Research Bulletin</i> , 2002, 37, 1381-1392.	5.2	5
23	Hydrothermal synthesis and structural characterization of framework microporous mixed tin-zirconium silicates with the structure of umbite. <i>Inorganic Chemistry Communication</i> , 2002, 5, 824-828.	3.9	9
24	Hydrothermal synthesis and X-ray powder structure determination of a novel layered tin(IV) phosphate, $\text{Sn}(\text{HPO}_4)_2 \cdot (\text{NH}_3)_{0.4}(\text{H}_2\text{O})_{0.6}$. <i>Inorganic Chemistry Communication</i> , 2002, 5, 685-689.	3.9	6
25	Synthesis of a Mineral-Organic Hybrid by Treatment of Phlogopite with Phenylphosphonic Acid. <i>Chemistry of Materials</i> , 2001, 13, 4457-4462.	6.7	18
26	Novel Silicate Anion: $\text{Si}_8\text{O}_{22}^{12-}$. Hydrothermal Synthesis and X-ray Powder Structure of Three New Niobium Silicates. <i>Inorganic Chemistry</i> , 2001, 40, 4368-4373.	4.0	16
27	Hydrogen bond network of the layered phosphates $\text{Zr}(\text{H}_2\text{PO}_4)(\text{PO}_4) \cdot 2\text{H}_2\text{O}$ and $\text{Hf}(\text{H}_2\text{PO}_4)(\text{PO}_4) \cdot 2\text{H}_2\text{O}$ determined by neutron powder diffraction. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2001, 216, .	0.8	7
28	Hydrothermal synthesis and characterization of an ammoniumtitanium(IV) phosphate with pyrochlore-type structure. <i>Inorganic Chemistry Communication</i> , 2001, 4, 555-557.	3.9	6
29	Synthesis and structural study of $\text{K}_2\text{PbSi}_3\text{O}_9 \cdot \text{H}_2\text{O}$ with the structure of kostylevite. <i>Materials Research Bulletin</i> , 2001, 36, 717-725.	5.2	6
30	Synchrotron X-Ray Powder Structure of the New Layered Phosphate $\text{Ti}_2(\text{OH})_2\text{OSiO}_4 \cdot 1.5\text{H}_2\text{O}$. <i>Materials Science Forum</i> , 2001, 378-381, 665-670.		
31	Synthesis, Characterization, and X-Ray Powder Structure of $\text{K}_2\text{ZrGe}_2\text{O}_7$. <i>Journal of Solid State Chemistry</i> , 1999, 148, 41-49.	2.9	17
32	Neutron Powder Diffraction Study of $\text{Ti}_2(\text{OH})_2\text{OSiO}_4 \cdot 1.5\text{H}_2\text{O}$. <i>Inorganic Chemistry</i> , 1999, 38, 2563-2566.	4.0	19
33	Hydrothermal Synthesis and Structure of $\text{Fe}(\text{NH}_3)_2\text{PO}_4 \cdot \text{H}_2\text{O}$: A Novel Monophosphate. <i>Inorganic Chemistry</i> , 1999, 38, 5944-5947.	4.0	19
34	Layered acid arsenates $\text{M}(\text{HASO}_4)_2 \cdot \text{H}_2\text{O}$ (M=Ti, Sn, Pb): synthesis optimization and crystal structures. <i>Journal of Molecular Structure</i> , 1998, 470, 93-104.	3.6	28
35	Synthesis, crystal structure and intercalation behaviour of hafnium phosphate dihydrogenphosphate dihydrate. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 99-102.	1.1	3
36	Layered mixed tin-titanium phosphates. <i>Journal of Materials Research</i> , 1998, 13, 754-759.	2.6	5

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37	Neutron powder diffraction study of $\hat{\pm}$ -Ti(HPO ₄) ₂ .H ₂ O and $\hat{\pm}$ -Hf(HPO ₄) ₂ .H ₂ O; H-atom positions. Erratum. Acta Crystallographica Section B: Structural Science, 1997, 53, 188-188.	1.8	2
38	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
39	Synthesis of three-dimensional compounds from alkali-metal ion-exchanged $\hat{1}^3$ -titanium phosphate. Journal of Materials Chemistry, 1996, 6, 415-419.	6.7	8
40	Neutron powder diffraction study of $\hat{\pm}$ -Ti(HPO ₄) ₂ .H ₂ O and $\hat{\pm}$ -Hf(HPO ₄) ₂ .H ₂ O; H-atom positions. Acta Crystallographica Section B: Structural Science, 1996, 52, 896-898.	1.8	32
41	Alkenyl Fischer Carbene Complexes and $\hat{\pm}$, $\hat{1}^2$ Unsaturated Imine Derivatives: Synthesis of Azepines and Mechanistic NMR Studies. Chemistry - A European Journal, 1996, 2, 88-97.	3.3	50
42	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
43	Photochemical ligand rearrangement in dirhodium(II) compounds. Structure of Rh ₂ (O ₂ CCH ₃) ₂ ($\hat{1}$ -2-O ₂ CCH ₃)[(C ₆ H ₄)PPh ₂]($\hat{1}$ -2-PCCl)(PCCl $\hat{1}$ →P-ClC ₆ H ₄)Ph ₂ . Inorganica Chimica Acta, 1995, 229,2,4 203-209.		16
44	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
45	Synthesis, structure, and reactivity of the first diazagermocines. Organometallics, 1992, 11, 2348-2350.	2.3	13
46	A homoleptic (aryl isocyanide)iron(0) dimer. X-ray structure determination of nonakis(phenyl) Tj ETQq0 0 0 rgBT /Oyerlock 10 Tf 50 382	2.3	9
47	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