

Peng L Wang

List of Publications by Year in descending order

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31
papers

1,011
citations

687363

13
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

1584
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraordinary role of Hg in enhancing the thermoelectric performance of p-type SnTe. <i>Energy and Environmental Science</i> , 2015, 8, 267-277.	30.8	347
2	Highly selective and efficient heavy metal capture with polysulfide intercalated layered double hydroxides. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10280-10289.	10.3	172
3	Highly Efficient Iodine Capture by Layered Double Hydroxides Intercalated with Polysulfides. <i>Chemistry of Materials</i> , 2014, 26, 7114-7123.	6.7	132
4	Efficient Hg Vapor Capture with Polysulfide Intercalated Layered Double Hydroxides. <i>Chemistry of Materials</i> , 2014, 26, 5004-5011.	6.7	64
5	Decoupling the Electrical Conductivity and Seebeck Coefficient in the RE_2SbO_2 Compounds through Local Structural Perturbations. <i>Journal of the American Chemical Society</i> , 2012, 134, 1426-1429.	13.7	38
6	Hard Radiation Detection from the Selenophosphate $\text{Pb}_2\text{P}_2\text{Se}_6$. <i>Advanced Functional Materials</i> , 2015, 25, 4874-4881.	14.9	33
7	Correlation of emission, scintillation and charge trapping properties in Cs_2HfCl_6 and Cs_2ZrCl_6 single crystals. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2955-2968.	5.5	23
8	Tuning Magnetic and Structural Transitions through Valence Electron Concentration in the Giant Magnetocaloric $\text{Gd}_5\text{xEu}_x\text{Ge}_4$ Phases. <i>Chemistry of Materials</i> , 2012, 24, 552-556.	6.7	22
9	Search for β decay of naturally occurring Hf-nuclides using a Cs_2HfCl_6 scintillator. <i>Nuclear Physics A</i> , 2020, 1002, 121941.	1.5	18
10	Mononuclear Complexes of Platinum Group Metals Containing C_6H_5 and C_5H_5 Cyclic Perimeter Hydrocarbon and Pyridylpyrazolyl Derivatives: Syntheses and Structural Studies. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 758-764.	1.2	17
11	Synthesis, Crystal and Electronic Structures of New Narrow-Band-Gap Semiconducting Antimonide Oxides RE_3SbO_3 and $\text{RE}_8\text{Sb}_3\text{O}_8$, with RE = La, Sm, Gd, and Ho. <i>Journal of the American Chemical Society</i> , 2010, 132, 8795-8803.	13.7	16
12	Disorder-Controlled Electrical Properties in the $\text{Ho}_2\text{Sb}_2\text{Bi}_2\text{O}_{10}$ Systems. <i>Chemistry of Materials</i> , 2013, 25, 699-703.	6.7	14
13	Crystal structure and magnetism of $\text{Gd}_5\text{xEu}_x\text{Ge}_4$. <i>Journal of Alloys and Compounds</i> , 2012, 534, 74-80.	5.5	13
14	Electronically Induced Ferromagnetic Transitions in Sm_5Ge_4 -Type Magnetoresponse Phases. <i>Physical Review Letters</i> , 2013, 110, 077204.	7.8	12
15	Refined Synthesis and Crystal Growth of $\text{Pb}_2\text{P}_2\text{Se}_6$ for Hard Radiation Detectors. <i>Crystal Growth and Design</i> , 2016, 16, 5100-5109.	3.0	12
16	Composition, structure, bonding and thermoelectric properties of Cu_2P_3 and Cu_4P_3 , members of the $\text{T}_{1-x}\text{Cu}_3$ (CuP_3) _x series with T being Si and Ge. <i>Dalton Transactions</i> , 2010, 39, 1105-1112.	3.3	10
17	Study of half-sandwich mono and dinuclear complexes of platinum group metals containing pyrazolyl pyridine analogues: Synthesis and spectral characterization. <i>Journal of Chemical Sciences</i> , 2012, 124, 565-575.	1.5	9
18	Copper-Magnesium-Manganese Spinel Coatings for Solid Oxide Fuel Cell Interconnects. <i>Journal of the Electrochemical Society</i> , 2014, 161, F233-F238.	2.9	9

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19	Growth, structure, and temperature dependent emission processes in emerging metal hexachloride scintillators Cs ₂ HfCl ₆ and Cs ₂ ZrCl ₆ . Dalton Transactions, 2022, 51, 6944-6954.	3.3	9
20	Synthesis, Crystal Structure, and Electronic Properties of the Tetragonal (REIREII)3SbO3 Phases (RE =) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.6	7
21	Resolving Composition and Structure of RE-Sb-O-C Natural Superlattice Phases (RE = La, Ho). European Journal of Inorganic Chemistry, 2011, 2011, 3887-3895.	2.0	6
22	Charge Transport Mechanisms in a Pb ₂ P ₂ Se ₆ Semiconductor. ACS Photonics, 2016, 3, 1877-1887.	6.6	6
23	Stabilization and Solvent Driven Crystal-to-Crystal Transition between New Bismuth Halides. Inorganic Chemistry, 2020, 59, 7049-7055.	4.0	6
24	Purity analysis for room-temperature semiconductor radiation detection material, CsPbBr ₃ , using ICP-MS. Journal of Analytical Atomic Spectrometry, 2020, 35, 2672-2678.	3.0	4
25	Electron-Deficient Eu _{6.5} Gd _{0.5} Ge ₆ Intermetallic: A Layered Intergrowth Phase of the Gd ₅ Si ₄ - and FeB-Type Structures. Inorganic Chemistry, 2012, 51, 3172-3178.	4.0	3
26	The low-symmetry lanthanum(III) oxotellurate(IV), La ₁₀ Te ₁₂ O ₃₉ . Acta Crystallographica Section E: Structure Reports Online, 2013, 69, i36-i36.	0.2	3
27	1.5 and 1.6 - cyclic 10-perimeter hydrocarbon platinum group metal complexes of 3-(2-pyridyl)pyrazole derived ligands with a pendant nitrile group: Syntheses, spectral and structural studies. Journal of Chemical Sciences, 2012, 124, 411-419.	1.5	2
28	Assessment of Cs ₂ HfCl ₆ crystal applicability as low-temperature scintillating bolometers by their thermodynamic characteristics. Journal of Materials Chemistry C, 2022, 10, 5218-5229.	5.5	2
29	Spectral and Structural Studies of Platinum Group Metal Complexes of 3-(2-Pyridylaminomethyl)Benzamide and Formation of Mutual Intermolecular Hydrogen Bonding in Some Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 634-640.	1.2	1
30	Single-Crystal Bismuth Thiophosphate, BiPS ₄ , as a Nontoxic and Mechanically Robust X-ray Detector. ACS Applied Materials & Interfaces, 2021, 13, 56296-56301.	8.0	1
31	Investigation on Rare Nuclear Processes in Hf Nuclides. Radiation, 2022, 2, 234-247.	1.4	0