

Houria Kabbour

List of Publications by Year in descending order

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74
papers

2,235
citations

279798

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times ranked

3010
citing authors

#	ARTICLE	IF	CITATIONS
1	NMR Confirmation for Formation of $[B_{12}H_{12}]^{2-}$ Complexes during Hydrogen Desorption from Metal Borohydrides. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3164-3169.	3.1	280
2	Increasing the Density of Adsorbed Hydrogen with Coordinatively Unsaturated Metal Centers in Metal-Organic Frameworks. <i>Langmuir</i> , 2008, 24, 4772-4777.	3.5	258
3	Toward New Candidates for Hydrogen Storage: High-Surface-Area Carbon Aerogels. <i>Chemistry of Materials</i> , 2006, 18, 6085-6087.	6.7	205
4	$\hat{I}\pm\text{-Na}_3\text{M}_2(\text{PO}_4)_3$ (M = Ti, Fe): Absolute Cationic Ordering in NASICON-Type Phases. <i>Journal of the American Chemical Society</i> , 2011, 133, 11900-11903.	13.7	144
5	Structure and Magnetic Properties of Oxychalcogenides $A_2F_2OQ_2$ (A = Sr, Ba; Q = S, Se) with Fe_2O Square Planar Layers Representing an Antiferromagnetic Checkerboard Spin Lattice. <i>Journal of the American Chemical Society</i> , 2008, 130, 8261-8270.	13.7	105
6	Structure and electrochromism of two-dimensional octahedral molecular sieve $h\text{-WO}_3$. <i>Nature Communications</i> , 2019, 10, 327.	12.8	88
7	$\text{LiSc}(\text{BH}_4)_4$ as a Hydrogen Storage Material: Multinuclear High-Resolution Solid-State NMR and First-Principles Density Functional Theory Studies. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9956-9968.	3.1	71
8	Rational design of new inorganic compounds with the ZrSiCuAs structure type using 2D building blocks. <i>Journal of Materials Chemistry</i> , 2005, 15, 3525.	6.7	55
9	Facile Synthesis of BiCuOS by Hydrothermal Methods. <i>Inorganic Chemistry</i> , 2007, 46, 10741-10748.	4.0	55
10	A Genuine Two-Dimensional Ising Ferromagnet with Magnetically Driven Re-entrant Transition. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11745-11749.	13.8	53
11	Designing New Inorganic Compounds from 2D Building Blocks. <i>Chemistry of Materials</i> , 2005, 17, 234-236.	6.7	45
12	Across the Structural Re-entrant Transition in $\text{BaFe}_2(\text{PO}_4)_2$: Influence of the Two-Dimensional Ferromagnetism. <i>Journal of the American Chemical Society</i> , 2013, 135, 13023-13029.	13.7	38
13	ABiO_2X (A = Cd, Ca, Sr, Ba, Pb; X = halogen) <i>Sillen</i> X1 Series: Polymorphism Versus Optical Properties. <i>Inorganic Chemistry</i> , 2016, 55, 7582-7592.	4.0	37
14	Design of a New Family of Inorganic Compounds $\text{Ae}_2\text{F}_2\text{SnX}_3$ (Ae = Sr, Ba; X = S, Se) Using Rock Salt and Fluorite 2D Building Blocks. <i>Inorganic Chemistry</i> , 2006, 45, 917-922.	4.0	33
15	Unprecedented Robust Antiferromagnetism in Fluorinated Hexagonal Perovskites. <i>Journal of the American Chemical Society</i> , 2011, 133, 10901-10909.	13.7	33
16	$\text{Ae}_2\text{Sb}_2\text{X}_4\text{F}_2$ (Ae = Sr, Ba): New Members of the Homologous Series $\text{Ae}_2\text{M}_{1+n}\text{X}_{3+n}\text{F}_2$ Designed from Rock Salt and Fluorite 2D Building Blocks. <i>Inorganic Chemistry</i> , 2006, 45, 2713-2717.	4.0	32
17	Host-sensitized luminescence properties of $\text{KLa}_5\text{O}_5(\text{VO}_4)_2\text{:Eu}^{3+}$ for solid-state lighting applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7277-7285.	5.5	30
18	Fluorination of Iron Hexagonal Perovskites Promoting Low Temperature Oxygen Mobility. <i>Chemistry of Materials</i> , 2010, 22, 6726-6735.	6.7	29

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19	Reduction of $\text{Ln}_2\text{Ti}_2\text{O}_7$ Layered Perovskites: A Survey of the Anionic Lattice, Electronic Features, and Potentials. <i>Chemistry of Materials</i> , 2017, 29, 1047-1057.	6.7	29
20	Pore size distribution and supercritical hydrogen adsorption in activated carbon fibers. <i>Nanotechnology</i> , 2009, 20, 204012.	2.6	27
21	$\text{BaCoO}_{2.22}$: the most oxygen-deficient certified cubic perovskite. <i>Dalton Transactions</i> , 2015, 44, 10728-10737.	3.3	27
22	Direct synthesis and NMR characterization of calcium alanate. <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 264-266.	5.5	25
23	In situ surface treatment of nanocrystalline MFe_2O_4 (M=Co, Mg, Mn, Ni) spinel ferrites using linseed oil. <i>Applied Surface Science</i> , 2013, 287, 490-498.	6.1	25
24	Magnetization Steps Promoted by Structural Modulation in BaCoX_2O_7 (X = As, P). <i>Journal of Physical Chemistry C</i> , 2013, 117, 18190-18198.	3.1	23
25	Design and magnetic properties of new compounds containing iron 2D building blocks of the perovskite type. <i>Solid State Sciences</i> , 2005, 7, 936-944.	3.2	22
26	P-type transparent conductors $\text{Sr}_{1-x}\text{Na}_x\text{FCuS}$ and $\text{Sr}_{1-x}\text{O}_x\text{CuS}$: design, synthesis and physical properties. <i>Journal of Materials Chemistry</i> , 2006, 16, 4165-4169.	6.7	22
27	Reversible Topochemical Exsolution of Iron in $\text{BaFe}^{2+}_2(\text{PO}_4)_2$. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13365-13370.	13.8	22
28	Slow Spin Dynamics between Ferromagnetic Chains in a Pure-Inorganic Framework. <i>Inorganic Chemistry</i> , 2013, 52, 13742-13750.	4.0	21
29	Anion-Vacancy-Induced Magneto-Crystalline Anisotropy in Fluorine-Doped Hexagonal Cobaltites. <i>Journal of the American Chemical Society</i> , 2010, 132, 4865-4875.	13.7	20
30	Structure of the water-splitting photocatalyst oxysulfide LaInS_2 and <i>ab initio</i> prediction of new polymorphs. <i>Chemical Communications</i> , 2020, 56, 1645-1648.	4.1	20
31	Cation Deficient Layered Ruddlesden-Popper-Related Oxysulfides $\text{La}_2\text{LnMS}_5\text{O}_{10}$ (Ln = La, Y; M = Nb, Ta). <i>Inorganic Chemistry</i> , 2007, 46, 9584-9590.	4.0	19
32	On the Use of Dynamical Diffraction Theory To Refine Crystal Structure from Electron Diffraction Data: Application to $\text{KLa}_5\text{O}_5(\text{VO}_4)_2$, a Material with Promising Luminescent Properties. <i>Inorganic Chemistry</i> , 2016, 55, 2252-2260.	4.0	18
33	Synthesis, X-ray and optical characterizations of two new oxysulfides: LaInS_2O and $\text{La}_5\text{In}_3\text{S}_9\text{O}_3$. <i>Journal of Solid State Chemistry</i> , 2004, 177, 1053-1059.	2.9	17
34	Puzzling Polymorphism of Layered $\text{Ba}(\text{CoPO}_4)_2$. <i>Inorganic Chemistry</i> , 2013, 52, 8732-8737.	4.0	17
35	Structural Evolution from OD Units to 3D Frameworks in Pb Oxyhalides: Unexpected Strongly Corrugated Layers in $\text{Pb}_7\text{O}_6\text{Br}_2$. <i>Inorganic Chemistry</i> , 2015, 54, 11550-11556.	4.0	17
36	$[\text{BaCoO}_3]_n$ Singularity of the $n = 2$ Term. <i>Chemistry of Materials</i> , 2011, 23, 5191-5199.	6.7	15

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37	Revised Bi/M Layered Oxo-Sulfate (M = Co, Cu): A Structural and Magnetic Study. <i>Inorganic Chemistry</i> , 2014, 53, 6969-6978.	4.0	15
38	Lead Oxychloride Borates Obtained under Extreme Conditions. <i>Inorganic Chemistry</i> , 2016, 55, 9077-9084.	4.0	15
39	Triple Co ^{II, III, IV} charge ordering and spin states in modular cobaltites: a systematization through experimental and virtual compounds. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9457-9466.	5.5	12
40	Ba ₂ F ₂ Fe ₂ +0.5Fe ₃ +S ₃ : A Two-Dimensional Inhomogeneous Mixed Valence Iron Compound. <i>Inorganic Chemistry</i> , 2008, 47, 1648-1652.	4.0	11
41	Ba ₈ Co ₂ Mn ₆ ClO ₂₂ , a quasi-1D hexagonal perovskite polytype containing new 8H-blocks. <i>Chemical Communications</i> , 2010, 46, 5271.	4.1	11
42	Nanometric nickel exsolution in the hexagonal perovskite Ba ₈ Ta ₆ NiO ₂₄ : Survey of the structural, magnetic and catalytic features. <i>Journal of Alloys and Compounds</i> , 2018, 766, 987-993.	5.5	11
43	Selective Metal Exsolution in BaFe ₂ My(PO ₄) ₂ (M = Co ²⁺ , Ni ²⁺) Solid Solutions. <i>Inorganic Chemistry</i> , 2015, 54, 8733-8743.	4.0	10
44	Reversible Exsolution of Nanometric Fe ₂ O ₃ Particles in BaFe ₂ x(PO ₄) ₂ (0 ≤ x ≤ 2/3): The Logic of Vacancy Ordering in Novel Metal-Depleted Two-Dimensional Lattices. <i>Crystal Growth and Design</i> , 2015, 15, 4237-4247.	3.0	10
45	Bismuth and vanadate activators in BiMVO ₅ (M=Ca, Mg, Cd) phases: Structural, electronic and optical specificities. <i>Journal of Alloys and Compounds</i> , 2017, 709, 373-380.	5.5	10
46	Metamagnetic Transitions versus Magnetocrystalline Anisotropy in Two Cobalt Arsenates with 1D Co ²⁺ Chains. <i>Inorganic Chemistry</i> , 2019, 58, 12609-12617.	4.0	10
47	Oxysulfide Ba ₅ (VO ₂ S ₂) ₂ (S ₂) ₂ Combining Disulfide Channels and Mixed-Anion Tetrahedra and Its Third-Harmonic-Generation Properties. <i>Inorganic Chemistry</i> , 2020, 59, 5907-5917.	4.0	10
48	Mixed Metallic Ba(Co,Fe) _x O ₃ (X = F, Cl) Hexagonal Perovskites: Drastic Effect of Fe-Incorporation on Structural and Electronic Features. <i>Inorganic Chemistry</i> , 2012, 51, 7598-7608.	4.0	9
49	Comprehensive Study of Oxygen Storage in YbFe ₂ O _{4-x} (0 ≤ x ≤ 0.5): Unprecedented Coexistence of FeO Polyhedra in One Single Phase. <i>Journal of the American Chemical Society</i> , 2017, 139, 17031-17043.	13.7	9
50	Topochemical Reduction of YMnO ₃ into a Composite Structure. <i>Inorganic Chemistry</i> , 2017, 56, 8547-8553.	4.0	9
51	Negative Second Harmonic Response of Sn ⁴⁺ in the Fresnoite Oxysulfide Ba ₂ SnSi ₂ O ₇ . <i>Chemistry of Materials</i> , 2022, 34, 4375-4383.	6.7	9
52	Two-Orbital Three-Electron Stabilizing Interaction for Direct Co ²⁺ As ³⁺ Bonds involving Square Planar CoO ₄ in BaCoAs ₂ O ₅ . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3111-3114.	13.8	8
53	Bonding Scheme and Optical Properties in BiM ₂ O ₂ (PO ₄) ₄ (M=Cd, Tl) ETQq1_10.784314 rgBT		
54	A mixed-valent niobium oxysulfide, La ₂ Nb ₃ S ₂ O ₈ . <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003, 59, i55-i56.	0.4	7

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55	Common Building Motifs in $\text{Ba}_2\text{Fe}_3(\text{PO}_4)_4 \cdot 2\text{H}_2\text{O}$, $\text{BaFe}_3(\text{PO}_4)_3$ and $\text{Na}_3\text{Fe}_3(\text{PO}_4)_4$: Labile $\text{Fe}^{2+}/\text{Fe}^{3+}$ Ordering and Charge-Dependent Magnetism. <i>Inorganic Chemistry</i> , 2016, 55, 4354-4361.	4.0	7
56	The $\text{Ba}_{10}\text{S}(\text{VO}_3)_6$ Oxysulfide: One-Dimensional Structure and Mixed Anion Chemical Bonding. <i>Inorganic Chemistry</i> , 2019, 58, 1349-1357.	4.0	7
57	Synthesis, structure and magnetic behavior of iron arsenites with hierarchical magnetic units. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3987-3999.	6.0	6
58	A gadolinium and niobium oxide sulfide, $\text{Gd}_3\text{Nb}_3\text{S}_3\text{O}_4$. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, i101-i102.	0.2	5
59	High Pressure Synthesis of the Spin Chain Sulfide $\text{Ba}_9\text{V}_3\text{S}_{11}(\text{S}_2)_2$. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1271-1277.	2.0	5
60	A comprehensive study of magnetic exchanges in the layered oxychalcogenides $\text{Sr}_3\text{Fe}_2\text{O}_5\text{Cu}_2\text{Q}_2$ (Q= S, Tj ETQq0,0,0 rgBT /Overlock 1	2.3	4
61	Synthesis, electronic structure and physical properties of polycrystalline $\text{Ba}_2\text{FePnSe}_5$ (Pn= Sb, Bi). <i>Materials Chemistry and Physics</i> , 2018, 203, 202-211.	4.0	4
62	Polymorphs, phase transitions and stability in $\text{BaM}_2(\text{PO}_4)_2$ M = Mn, Fe, Co systems. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 239-246.	6.0	3
63	Rational conception of inorganic compounds using 2D secondary building units. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2867-2870.	0.8	2
64	A Performant Dry Reforming Catalytic System Elaborated from the Reductive Decomposition of $\text{BaNi}_2\text{V}_2\text{O}_8$. <i>ChemistrySelect</i> , 2016, 1, 5633-5637.	1.5	2
65	Multiferroic BaCoX_2O_7 (X = P, As) Compounds with Incommensurate Structural Waves but Collinear Spin Ingredients. <i>Advanced Quantum Technologies</i> , 2021, 4, 2000064.	3.9	2
66	CHARACTERIZATION OF COMPLEX METAL HYDRIDES BY HIGH-RESOLUTION SOLID STATE NMR SPECTROSCOPY., 2009,, .		2
67	A high dimensional oxysulfide built from large iron-based clusters with partial charge-ordering. <i>Chemical Communications</i> , 2021, 57, 11859-11862.	4.1	2
68	Hydrogen Adsorption in MOF-74 Studied by Inelastic Neutron Scattering. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1041, 1.	0.1	1
69	Identification and optical features of the $\text{Pb}_4\text{Ln}_2\text{O}_7$ series (Ln = La, Gd, Sm, Nd); genuine 2D-van der Waals oxides. <i>Chemical Communications</i> , 2019, 55, 2944-2947.	4.1	1
70	An unusual $\text{O}^{2-}/\text{F}^{\cdot-}$ distribution in the new pyrochlore oxyfluorides: $\text{Na}_2\text{B}_2\text{O}_5\text{F}_2$ (B = Nb, Ta). <i>Chemical Communications</i> , 2022, 58, 2391-2394.	4.1	1
71	A Mixed-Valent Niobium Oxysulfide, $\text{La}_2\text{Nb}_3\text{S}_2\text{O}_8$.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
72	Designing New Inorganic Compounds from 2D Building Blocks.. <i>ChemInform</i> , 2005, 36, no.	0.0	0

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73	Design and Magnetic Properties of New Compounds Containing Iron 2D Building Blocks of the Perovskite Type.. ChemInform, 2005, 36, no.	0.0	0
74	Preparation, characterization and DFT+U study of the polar Fe ³⁺ -based phase Ba ₅ Fe ₂ ZnIn ₄ S ₁₅ containing S= 5/2 zigzag chains. Dalton Transactions, 0, , .	3.3	0