

# Houria Kabbour

## List of Publications by Year in descending order

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74  
papers

2,235  
citations

279798

23  
h-index

223800

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g-index

95  
all docs

95  
docs citations

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times ranked

3010  
citing authors

#	ARTICLE	IF	CITATIONS
1	An unusual $O^{2-}/F^{+}$ distribution in the new pyrochlore oxyfluorides: $Na_2B_2O_5F_2$ (B = Nb, Ta). <i>Chemical Communications</i> , 2022, 58, 2391-2394.	4.1	1
2	Negative Second Harmonic Response of $Sn^{4+}$ in the Fresnoite Oxysulfide $Ba_2SnSi_2O_7$ . <i>Chemistry of Materials</i> , 2022, 34, 4375-4383.	6.7	9
3	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
4	High Pressure Synthesis of the Spin Chain Sulfide $Ba_9V_3S_{11}(S_2)_2$ . <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1271-1277.	2.0	5
5	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
6	Structure of the water-splitting photocatalyst oxysulfide $\hat{I}\pm-LaOInS_2$ and <i>ab initio</i> prediction of new polymorphs. <i>Chemical Communications</i> , 2020, 56, 1645-1648.	4.1	20
7	Polymorphs, phase transitions and stability in $BaM_2(PO_4)_2$ M = Mn, Fe, Co systems. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 239-246.	6.0	3
8	Synthesis, structure and magnetic behavior of iron arsenites with hierarchical magnetic units. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3987-3999.	6.0	6
9	Oxysulfide $Ba_5(VO_2S_2)_2(S_2)_2$ Combining Disulfide Channels and Mixed-Anion Tetrahedra and Its Third-Harmonic-Generation Properties. <i>Inorganic Chemistry</i> , 2020, 59, 5907-5917.	4.0	10
10	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
11	Identification and optical features of the $Pb_4Ln_2O_7$ series (Ln = La, Gd, Sm, Nd); genuine 2D-van der Waals oxides. <i>Chemical Communications</i> , 2019, 55, 2944-2947.	4.1	1
12	Structure and electrochromism of two-dimensional octahedral molecular sieve $\text{h}\hat{\epsilon}\text{TM-WO}_3$ . <i>Nature Communications</i> , 2019, 10, 327.	12.8	88
13	The $Ba_{10}S_3(VO_3)_6$ Oxysulfide: One-Dimensional Structure and Mixed Anion Chemical Bonding. <i>Inorganic Chemistry</i> , 2019, 58, 1349-1357.	4.0	7
14	Synthesis, electronic structure and physical properties of polycrystalline $Ba_2FePnSe_5$ (Pn = Sb, Bi). <i>Materials Chemistry and Physics</i> , 2018, 203, 202-211.	4.0	4
15	Nanometric nickel exsolution in the hexagonal perovskite $Ba_8Ta_6NiO_{24}$ : Survey of the structural, magnetic and catalytic features. <i>Journal of Alloys and Compounds</i> , 2018, 766, 987-993.	5.5	11
16	Reduction of $Ln_2Ti_2O_7$ Layered Perovskites: A Survey of the Anionic Lattice, Electronic Features, and Potentials. <i>Chemistry of Materials</i> , 2017, 29, 1047-1057.	6.7	29
17	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
18	Comprehensive Study of Oxygen Storage in $YbFe_2O_{4+x}$ ( $x \approx 0.5$ ): Unprecedented Coexistence of $FeO_n$ Polyhedra in One Single Phase. <i>Journal of the American Chemical Society</i> , 2017, 139, 17031-17043.	13.7	9

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19	Bonding Scheme and Optical Properties in $\text{BiM}_2\text{O}_4(\text{PO}_4)_2$ ( $\text{M}=\text{Cd}$ ), <i>J. Inorg. Nucl. Chem.</i> 2017, 100, 148-154.	1.0	14
20	A comprehensive study of magnetic exchanges in the layered oxychalcogenides $\text{Sr}_3\text{Fe}_2\text{O}_5\text{Cu}_2\text{Q}_2$ ( $\text{Q}=\text{S}$ ), <i>J. Inorg. Nucl. Chem.</i> 2017, 100, 155-164.	0.0	4
21	Topochemical Reduction of $\text{YMnO}_3$ into a Composite Structure. <i>Inorganic Chemistry</i> , 2017, 56, 8547-8553.	4.0	9
22	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
23	Lead Oxychloride Borates Obtained under Extreme Conditions. <i>Inorganic Chemistry</i> , 2016, 55, 9077-9084.	4.0	15
24	$\text{ABiO}_2\text{X}$ ( $\text{A}=\text{Cd}, \text{Ca}, \text{Sr}, \text{Ba}, \text{Pb}$ ; $\text{X}=\text{halogen}$ ) X1 Series: Polymorphism Versus Optical Properties. <i>Inorganic Chemistry</i> , 2016, 55, 7582-7592.	4.0	37
25	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
26	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
27	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
28	Selective Metal Exsolution in $\text{BaFe}_2\text{My}(\text{PO}_4)_2$ ( $\text{M}=\text{Co}^{2+}, \text{Ni}^{2+}$ ) Solid Solutions. <i>Inorganic Chemistry</i> , 2015, 54, 8733-8743.	4.0	10
29	$\text{BaCoO}_{2.22}$ : the most oxygen-deficient certified cubic perovskite. <i>Dalton Transactions</i> , 2015, 44, 10728-10737.	3.3	27
30	Reversible Exsolution of Nanometric $\text{Fe}_2\text{O}_3$ Particles in $\text{BaFe}_2\text{x}(\text{PO}_4)_2$ ( $0 \leq x \leq 2/3$ ): 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
31	Structural Evolution from 0D 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
32	Triple $\text{Co}^{\text{II, III, IV}}$ 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
33	Two-Orbital Three-Electron Stabilizing Interaction for Direct $\text{Co}^{2+}\text{As}^{3+}$ Bonds involving Square-Planar $\text{CoO}_4$ in $\text{BaCoAs}_2\text{O}_5$ . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3111-3114.	13.8	8
34	Reversible Topochemical Exsolution of Iron in $\text{BaFe}_2(\text{PO}_4)_2$ . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13365-13370.	13.8	22
35	Revised Bi/M Layered Oxo-Sulfate ( $\text{M}=\text{Co}, \text{Cu}$ ): A Structural and Magnetic Study. <i>Inorganic Chemistry</i> , 2014, 53, 6969-6978.	4.0	15
36	Puzzling Polymorphism of Layered $\text{Ba}(\text{CoPO}_4)_2$ . <i>Inorganic Chemistry</i> , 2013, 52, 8732-8737.	4.0	17

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37	In situ surface treatment of nanocrystalline $MFe_2O_4$ (M=Co, Mg, Mn, Ni) spinel ferrites using linseed oil. Applied Surface Science, 2013, 287, 490-498.	6.1	25
38	Across the Structural Re-Entrant Transition in $BaFe_2(PO_4)_2$ : Influence of the Two-Dimensional Ferromagnetism. Journal of the American Chemical Society, 2013, 135, 13023-13029.	13.7	38
39	Magnetization Steps Promoted by Structural Modulation in $BaCoX_2O_7$ (X = As, P). Journal of Physical Chemistry C, 2013, 117, 18190-18198.	3.1	23
40	Slow Spin Dynamics between Ferromagnetic Chains in a Pure-Inorganic Framework. Inorganic Chemistry, 2013, 52, 13742-13750.	4.0	21
41	A Genuine Two-Dimensional Ising Ferromagnet with Magnetically Driven Re-Entrant Transition. Angewandte Chemie - International Edition, 2012, 51, 11745-11749.	13.8	53
42	Mixed Metallic $Ba(Co,Fe)_{0.2}O_{3\tilde{\Gamma}}$ (X = F, Cl) Hexagonal Perovskites: Drastic Effect of Fe-Incorporation on Structural and Electronic Features. Inorganic Chemistry, 2012, 51, 7598-7608.	4.0	9
43	$[BaCoO_3]_n[BaCoO_{11}]_{1-n}$ Modular Intergrowths: Singularity of the $n = 2$ Term. Chemistry of Materials, 2011, 23, 5191-5199.	6.7	15
44	Unprecedented Robust Antiferromagnetism in Fluorinated Hexagonal Perovskites. Journal of the American Chemical Society, 2011, 133, 10901-10909.	13.7	33
45	$\tilde{\Gamma}$ - $Na_3M_2(PO_4)_3$ (M = Ti, Fe): Absolute Cationic Ordering in NASICON-Type Phases. Journal of the American Chemical Society, 2011, 133, 11900-11903.	13.7	144
46	Fluorination of Iron Hexagonal Perovskites Promoting Low Temperature Oxygen Mobility. Chemistry of Materials, 2010, 22, 6726-6735.	6.7	29
47	Anion-Vacancy-Induced Magneto-Crystalline Anisotropy in Fluorine-Doped Hexagonal Cobaltites. Journal of the American Chemical Society, 2010, 132, 4865-4875.	13.7	20
48	$Ba_8Co_2Mn_6ClO_{22}$ , a quasi-1D hexagonal perovskite polytype containing new 8H-blocks. Chemical Communications, 2010, 46, 5271.	4.1	11
49	Pore size distribution and supercritical hydrogen adsorption in activated carbon fibers. Nanotechnology, 2009, 20, 204012.	2.6	27
50	$LiSc(BH_4)_4$ as a Hydrogen Storage Material: Multinuclear High-Resolution Solid-State NMR and First-Principles Density Functional Theory Studies. Journal of Physical Chemistry C, 2009, 113, 9956-9968.	3.1	71
51	CHARACTERIZATION OF COMPLEX METAL HYDRIDES BY HIGH-RESOLUTION SOLID STATE NMR SPECTROSCOPY., 2009, , .		2
52	Structure and Magnetic Properties of Oxychalcogenides $A_2F_2Fe_2OQ_2$ (A = Sr, Ba; Q = S, Se) with $Fe_2O$ Square Planar Layers Representing an Antiferromagnetic Checkerboard Spin Lattice. Journal of the American Chemical Society, 2008, 130, 8261-8270.	13.7	105
53	NMR Confirmation for Formation of $[B_{12}H_{12}]^{2-}$ Complexes during Hydrogen Desorption from Metal Borohydrides. Journal of Physical Chemistry C, 2008, 112, 3164-3169.	3.1	280
54	Increasing the Density of Adsorbed Hydrogen with Coordinatively Unsaturated Metal Centers in Metal-Organic Frameworks. Langmuir, 2008, 24, 4772-4777.	3.5	258

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55	Ba <sub>2</sub> F <sub>2</sub> Fe <sub>2</sub> +0.5Fe <sub>3</sub> +S <sub>3</sub> : A Two-Dimensional Inhomogeneous Mixed Valence Iron Compound. Inorganic Chemistry, 2008, 47, 1648-1652.	4.0	11
56	Hydrogen Adsorption in MOF-74 Studied by Inelastic Neutron Scattering. Materials Research Society Symposia Proceedings, 2007, 1041, 1.	0.1	1
57	Direct synthesis and NMR characterization of calcium alanate. Journal of Alloys and Compounds, 2007, 446-447, 264-266.	5.5	25
58	Cation Deficient Layered Ruddlesden-Popper-Related Oxysulfides La <sub>2</sub> LnM <sub>2</sub> O <sub>5</sub> (Ln = La, Y; M = Nb, Ta). Inorganic Chemistry, 2007, 46, 9584-9590.	4.0	19
59	Facile Synthesis of BiCuOS by Hydrothermal Methods. Inorganic Chemistry, 2007, 46, 10741-10748.	4.0	55
60	Toward New Candidates for Hydrogen Storage: High-Surface-Area Carbon Aerogels. Chemistry of Materials, 2006, 18, 6085-6087.	6.7	205
61	P-type transparent conductors Sr <sub>1-x</sub> NaxFCuS and Sr <sub>1-x</sub> OxCuS: design, synthesis and physical properties. Journal of Materials Chemistry, 2006, 16, 4165-4169.	6.7	22
62	Design of a New Family of Inorganic Compounds Ae <sub>2</sub> F <sub>2</sub> SnX <sub>3</sub> (Ae = Sr, Ba; X = S, Se) Using Rock Salt and Fluorite 2D Building Blocks. Inorganic Chemistry, 2006, 45, 917-922.	4.0	33
63	Ae <sub>2</sub> Sb <sub>2</sub> X <sub>4</sub> F <sub>2</sub> (Ae = Sr, Ba): New Members of the Homologous Series Ae <sub>2</sub> M <sub>1+n</sub> X <sub>3+n</sub> F <sub>2</sub> Designed from Rock Salt and Fluorite 2D Building Blocks. Inorganic Chemistry, 2006, 45, 2713-2717.	4.0	32
64	Rational conception of inorganic compounds using 2D secondary building units. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2867-2870.	0.8	2
65	Designing New Inorganic Compounds from 2D Building Blocks. Chemistry of Materials, 2005, 17, 234-236.	6.7	45
66	Design and magnetic properties of new compounds containing iron 2D building blocks of the perovskite type. Solid State Sciences, 2005, 7, 936-944.	3.2	22
67	Designing New Inorganic Compounds from 2D Building Blocks.. ChemInform, 2005, 36, no.	0.0	0
68	Design and Magnetic Properties of New Compounds Containing Iron 2D Building Blocks of the Perovskite Type.. ChemInform, 2005, 36, no.	0.0	0
69	Rational design of new inorganic compounds with the ZrSiCuAs structure type using 2D building blocks. Journal of Materials Chemistry, 2005, 15, 3525.	6.7	55
70	Synthesis, X-ray and optical characterizations of two new oxysulfides: LaInS <sub>2</sub> O and La <sub>5</sub> In <sub>3</sub> S <sub>9</sub> O <sub>3</sub> . Journal of Solid State Chemistry, 2004, 177, 1053-1059.	2.9	17
71	A Mixed-Valent Niobium Oxysulfide, La <sub>2</sub> Nb <sub>3</sub> S <sub>2</sub> O <sub>8</sub> .. ChemInform, 2003, 34, no.	0.0	0
72	A mixed-valent niobium oxysulfide, La <sub>2</sub> Nb <sub>3</sub> S <sub>2</sub> O <sub>8</sub> . Acta Crystallographica Section C: Crystal Structure Communications, 2003, 59, i55-i56.	0.4	7

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73	A gadolinium and niobium oxide sulfide, Gd <sub>3</sub> NbS <sub>3</sub> O <sub>4</sub> . Acta Crystallographica Section E: Structure Reports Online, 2003, 59, i101-i102.	0.2	5
74	Preparation, characterization and DFT+U study of the polar Fe <sup>3+</sup> -based phase Ba <sub>5</sub> Fe <sub>2</sub> ZnIn <sub>4</sub> S <sub>15</sub> containing S= 5/2 zigzag chains. Dalton Transactions, 0, , .	3.3	0