Mas A Subramanian

List of Publications by Year
in descending order

63 papers	3,597 citations	304743 22 h-index	128289 60 g-index
71 all docs	71 docs citations	71 times ranked	4720 citing authors

#	Article	IF	Citations
1	Synthesis and properties of novel inorganic red chromophore based on Cr4+ in tetrahedral coordination in Bi24Al2-Cr O39. Ceramics International, 2022, 48, 7850-7854.	4.8	1
2	Crystal structure refinement of magnesium zinc divanadate, MgZnV₂O₇, from powder X-ray diffraction data. Acta Crystallographica Section E: Crystallographic Communications, 2021, 77, 588-591.	0.5	0
3	Iridium valence variation and carrier sign tuning in (Ca,Ba)xLa2â^'xCuIrO6 double perovskites. Physical Review Materials, 2021, 5, .	2.4	1
4	Structural and electronic properties of the first iridium containing mixed B-site spinel oxide: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Cu</mml:mi><mml:mrow><mml:mo>[</mml:mo><mml:mi>Ir</mml:mi><mml:mo><mml:m mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow>. Physical Review Materials, 2021, 5, .	2.4	3
5	Os4+ Instability in the Pyrochlore Structure: Tl2â€“xBixOs2O7â€“y. Inorganic Chemistry, 2020, 59, 1227-1233.	4.0	8
6	Vacancy Tuning in Li,V-Substituted Lyonsites. Solvent Extraction and Ion Exchange, 2020, 38, 656-680.	2.0	1
7	Influence of Alkaline-Earth-Metal Substitutions on the Bismuth Ruthenate Structure: Bi_{2â€“x}Aâ€²_xRu₂O₆Oâ€²_{1â€“y} (Aâ€² = Mg, Ca, Sr). Inorganic Chemistry, 2020, 59, 14141-14151.	4.0	4
8	Tetrahedral Mn4+ as chromophore in sillenite-type compounds. Journal of Solid State Chemistry, 2020, 289, 121463.	2.9	7
9	A Highâ€Rate Aqueous Proton Battery Delivering Power Below â^'78 Â°C via an Unfrozen Phosphoric Acid. Advanced Energy Materials, 2020, 10, 2000968.	19.5	134
10	Covalency-driven Structural Evolution in the Polar Pyrochlore Series Cd₂Nb₂O_{7â€“x}S_x. Chemistry of Materials, 2019, 31, 7626-7637.	6.7	18
11	Inorganic pigments with transition metal chromophores at trigonal bipyramidal coordination: Y(In,Mn)O3 blues and beyond. Journal of Solid State Chemistry, 2019, 272, 9-20.	2.9	30
12	Hibonite Blue: A New Class of Intense Inorganic Blue Colorants. ACS Omega, 2019, 4, 22114-22118.	3.5	15
13	Local Moment Instability of Os in Honeycomb Li2.15Os0.85O3. Scientific Reports, 2018, 8, 6605.	3.3	6
14	Structural investigation and selected properties of Zn2.5â^'xCoxVMoO8 lyonsites. Journal of Solid State Chemistry, 2018, 266, 155-160.	2.9	2
15	Frustrated spin one on a diamond lattice in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>NiRh</mml:mi><mml:mn>2</mml:mn></ mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2018, 2, .	2.4	34
16	Bi_{2â€“x}Ca_xIr₂O_{6+y} Pyrochlore Phases: Structure and Properties with Varied Ir Oxidation State from 3.9+ to 4.3+. Inorganic Chemistry, 2017, 56, 4706-4715.	4.0	12
17	The effect of iridium oxidation state on the electronic properties of perovskite-type solid solutions: Ba2â€“La InIrO6 and BaLaIn1â€“Ca IrO6. Journal of Solid State Chemistry, 2017, 247, 53-59.	2.9	4
18	Spin order and dynamics in the diamond-lattice Heisenberg antiferromagnets <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CuRh</mml:mi><mml:mn>2</mml:mn></ mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CoRh</mml:mi><mml:mn>2</mml:mn></ mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:ms. Physical Review B, 2017, 96, .	3.2	29

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19	Structure and Properties of Ir-Containing Oxides with Large Spinâ€“Orbit Coupling: Ba₂In_{2â€“x}Ir_xO_{5+Î´}. Inorganic Chemistry, 2016, 55, 2748-2754.	4.0	12
20	Charge transfer instability in a mixed Ir/Rh honeycomb lattice in Li2Ir1â^'xRhxO3 solid solution. Solid State Sciences, 2016, 61, 232-238.	3.2	3
21	Determination of the Local Environment of Mn³⁺ and In³⁺ in the YInO₃â€“YMnO₃ Solid Solution, Which Exhibits an Intense Blue Color. Chemistry of Materials, 2016, 28, 6050-6053.	6.7	18
22	From Serendipity to Rational Design: Tuning the Blue Trigonal Bipyramidal Mn³⁺ Chromophore to Violet and Purple through Application of Chemical Pressure. Inorganic Chemistry, 2016, 55, 9798-9804.	4.0	30
23	Influence of Structural Disorder on Hollandites AxRu4O8 (A+ = K, Rb, Rb1â€“xNax). Inorganic Chemistry, 2016, 55, 3462-3467.	4.0	5
24	Structural studies of CaAl₁₂O₁₉, SrAl₁₂O₁₉, La_{2/3+Î´} Al_{12â€“Î´}O₁₉, and CaAl₁₀NiTiO₁₉ with the hibonite structure; indications of an unusual type of ferroelectricity. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2016, 71, 475-484.	0.7	26
25	From Occupied Voids to Nanoprecipitates: Synthesis of Skutterudite Nanocomposites in situ. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 1495-1502.	1.2	4
26	Magnetic Properties and Electronic Structure of Manganese-Based Blue Pigments: A High-Frequency and -Field EPR Study. Inorganic Chemistry, 2015, 54, 9040-9045.	4.0	21
27	True Composition and Structure of Hexagonal â€œYAlO₃â€; Actually Y₃Al₃O₈CO₃. Inorganic Chemistry, 2015, 54, 837-844.	4.0	25
28	Enhanced Thermoelectric Performance of Synthetic Tetrahedrites. Chemistry of Materials, 2014, 26, 2047-2051.	6.7	170
29	Solid solution studies of layered honeycomb-ordered phases O3â€“Na3M2SbO6 (M=Cu, Mg, Ni, Zn). Journal of Solid State Chemistry, 2013, 201, 178-185.	2.9	57
30	Structural Investigation of the Substituted Pyrochlore AgSbO₃ through Total Scattering Techniques. Inorganic Chemistry, 2013, 52, 11530-11537.	4.0	9
31	Attrition-enhanced nanocomposite synthesis of indium-filled, iron-substituted skutterudite antimonides for improved performance thermoelectrics. Materials Research Society Symposia Proceedings, 2013, 1490, 27-32.	0.1	2
32	Growth, optical and magnetic behavior of YMn0.35In0.65O3 thin film. AIP Advances, 2012, 2, 022158.	1.3	0
33	Advances in the development and growth of functional materials: Toward the paradigm of materials by design. MRS Bulletin, 2012, 37, 682-690.	3.5	7
34	Studies on solid solutions based on layered honeycomb-ordered phases P2-Na2M2TeO6 (M=Co, Ni, Zn). Journal of Solid State Chemistry, 2012, 196, 225-231.	2.9	66
35	New Layered Compounds with Honeycomb Ordering: Li₃Ni₂BiO₆, Li₃NiMâ€²BiO₆ (Mâ€² = Mg, Cu, Zn), and the Delafossite Ag₃Ni₂BiO₆. Inorganic Chemistry, 2012, 51, 5377-5385.	4.0	60
36	Synthesis and characterization of Sr2Ir1â^'xMxO4 (M=Ti, Fe, Co) solid solutions. Journal of Solid State Chemistry, 2012, 190, 257-263.	2.9	21

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37	New Oxides Showing an Intense Orange Color Based on Fe³⁺ in Trigonal-Bipyramidal Coordination. Inorganic Chemistry, 2011, 50, 5858-5860.	4.0	41
38	New Oxides Showing an Intense Blue Color Based on Mn³⁺ in Trigonal-Bipyramidal Coordination. Inorganic Chemistry, 2011, 50, 10-12.	4.0	45
39	Undulating Layers in a New Rhodate Network: Structure of Bi_{1.4}CuORh₅O₁₀. Inorganic Chemistry, 2011, 50, 10397-10401.	4.0	2
40	Structural Studies and Electrical Properties of Cs/Al/Te/O Phases with the Pyrochlore Structure. Inorganic Chemistry, 2011, 50, 5747-5754.	4.0	19
41	Synthesis, magnetic and thermoelectric properties of Rh2MO6 (M=Mo, Te, and W) with rutile-related structure. Materials Research Bulletin, 2011, 46, 2016-2020.	5.2	2
42	Synthesis and crystal structure of two new cerium rhodium oxides: Ce2/3â˜xRh3+2O4 (xâ¼0.12) with Ce mixed valency and Ce4+Rh3+2O5. Journal of Solid State Chemistry, 2011, 184, 1381-1386.	2.9	8
43	Compositionally controlled metalâ€“insulator transition in Tl2â˜xInxTeO6. Journal of Solid State Chemistry, 2011, 184, 877-880.	2.9	3
44	Synthesis and electronic properties of LnRhAsO and LnIrAsO compositions. Journal of Solid State Chemistry, 2011, 184, 1972-1976.	2.9	6
45	Stability of the ferromagnetic ground state of La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>MnNiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>against large compressive stress. Physical Review B, 2011, 84, .	3.2	19
46	Lattice crossover and mixed valency in the LaCo1â˜Rh O3 solid solution. Journal of Solid State Chemistry, 2010, 183, 1388-1393.	2.9	16
47	Electrical and magnetic properties of new rhodium perovskites: La2MRhO6, M=Cr, Fe, Cu. Materials Research Bulletin, 2010, 45, 460-463.	5.2	10
48	Effect of oxygen concentration on the structural and magnetic properties of LaRh1/2Mn1/2O3 thin films. Journal of Applied Physics, 2009, 105, .	2.5	3
49	Tin(II) Doped Anatase (TiO₂) Nanoparticles: A Potential Route to â€œGreenerâ€•Yellow Pigments. Chemistry - an Asian Journal, 2009, 4, 881-885.	3.3	22
50	Possible Verwey-Type Transition in Pb₃Rh₇O₁₅. Chemistry of Materials, 2009, 21, 2300-2305.	6.7	8
51	New A2/3â˜xRh2O4 Compounds with the CaFe2O4 Structure Where A Is a Rare Earth or Bi. Inorganic Chemistry, 2009, 48, 204-208.	4.0	9
52	AAâ€²2Rh6O12: A New Family of Rhodium Oxides Exhibiting High Thermopower Coupled with High Electrical Conductivity. Chemistry of Materials, 2009, 21, 994-999.	6.7	11
53	Mn³⁺ in Trigonal Bipyramidal Coordination: A New Blue Chromophore. Journal of the American Chemical Society, 2009, 131, 17084-17086.	13.7	151
54	First Observation of Electronic Conductivity in Mixed-Valence Tellurium Oxides. Chemistry of Materials, 2009, 21, 5572-5574.	6.7	25

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55	Bi2/3Ce1/3Rh2O5: A new mixed-valent Rh oxide with hitherto unknown structure. Journal of Solid State Chemistry, 2008, 181, 56-60.	2.9	10
56	Synthesis and characterization of Sn2+ oxides with the pyrochlore structure. Materials Research Bulletin, 2008, 43, 1943-1948.	5.2	23
57	Mixed Valent Rhodates. Materials Research Society Symposia Proceedings, 2008, 1148, 1.	0.1	1
58	Dielectric and polarization experiments in high loss dielectrics: A word of caution. Applied Physics Letters, 2008, 93, .	3.3	65
59	Partial charge ordering in the mixed-valent compound (Bi6O5)Rh83+Rh44+O24. Journal of Solid State Chemistry, 2007, 180, 3463-3468.	2.9	11
60	Thermoelectric Materials, Phenomena, and Applications: A Bird's Eye View. MRS Bulletin, 2006, 31, 188-198.	3.5	1,295
61	Clues to the Giant Dielectric Constant of CaCu3Ti4O12 in the Defect Structure of â€œSrCu3Ti4O12â€. Chemistry of Materials, 2004, 16, 5223-5225.	6.7	253
62	Colossal Magnetoresistance Without Mn3+/Mn4+ Double Exchange in the Stoichiometric Pyrochlore Tl2Mn2O7. Science, 1996, 273, 81-84.	12.6	313
63	Structural and magnetic studies ofSr2IrO4. Physical Review B, 1994, 49, 9198-9201.	3.2	381