

Bayrammurad I Saparov

List of Publications by Year in descending order

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69
papers

6,836
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109137

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docs citations

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times ranked

8428
citing authors

#	ARTICLE	IF	CITATIONS
1	(C ₇ H ₁₁ N ₂) ₂ MBr ₄ (M=Cu, Zn): X-ray Sensitive OD Hybrid Metal Halides with Tunable Broadband Emission. European Journal of Inorganic Chemistry, 2022, 2022, e202100954.	1.0	11
2	Physical Properties of Candidate X-ray Detector Material Rb ₄ Ag ₂ BiBr ₉ . Crystal Growth and Design, 2022, 22, 1066-1072.	1.4	12
3	Next Generation Thin-Film Solar Absorbers Based on Chalcogenides. Chemical Reviews, 2022, 122, 10575-10577.	23.0	32
4	Zero-Dimensional Hybrid Organic-Inorganic Indium Bromide with Blue Emission. Inorganic Chemistry, 2021, 60, 1045-1054.	1.9	48
5	Lead-Free Halide Light-Emitting Diodes with External Quantum Efficiency Exceeding 7% Using Host-Dopant Strategy. ACS Energy Letters, 2021, 6, 2584-2593.	8.8	48
6	(NH ₄) ₂ AgX ₃ (X = Br, I): 1D Silver Halides with Broadband White Light Emission and Improved Stability. ACS Materials Au, 2021, 1, 62-68.	2.6	14
7	Charge carrier mobility of halide perovskite single crystals for ionizing radiation detection. Applied Physics Letters, 2021, 119, .	1.5	17
8	Composition-Dependent Photoluminescence Properties and Anti-Counterfeiting Applications of A ₂ AgX ₃ (A= Rb, Cs; X= Cl, Br, I). Advanced Functional Materials, 2021, 31, 2104941.	7.8	50
9	Rb ₂ CuX ₃ (X = Cl, Br): 1D All-Inorganic Copper Halides with Ultrabright Blue Emission and Up-Conversion Photoluminescence. Advanced Optical Materials, 2020, 8, 1901338.	3.6	86
10	K ₂ CuX ₃ (X = Cl, Br): All-Inorganic Lead-Free Blue Emitters with Near-Unity Photoluminescence Quantum Yield. Chemistry of Materials, 2020, 32, 6197-6205.	3.2	109
11	Additive-assisted synthesis and optoelectronic properties of (CH ₃ NH ₃) ₄ BiI ₂ . Inorganic Chemistry Frontiers, 2020, 7, 1564-1572.	3.0	11
12	Highly Efficient Broad-Band Luminescence Involving Organic and Inorganic Molecules in a Zero-Dimensional Hybrid Lead Chloride. Journal of Physical Chemistry C, 2019, 123, 22470-22477.	1.5	57
13	Frontispiece: (CH ₃ NH ₃) ₃ AuX ₄ ·H ₂ O (X=Cl, Br) and (CH ₃ NH ₃) ₃ AuCl ₄ : Low-Band Gap Lead-Free Layered Gold Halide Perovskite Materials. Chemistry - A European Journal, 2019, 25, .	1.7	0
14	Bright Luminescence from Nontoxic CsCu ₂ X ₃ (X = Cl, Br, I). , 2019, 1, 459-465.		148
15	Antiferromagnetism and the emergence of frustration in the sawtooth lattice chalcogenide olivines Mn^{2+}		

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19	Rb ₄ Ag ₂ BiBr ₉ : A Lead-Free Visible Light Absorbing Halide Semiconductor with Improved Stability. <i>Inorganic Chemistry</i> , 2019, 58, 4446-4455.	1.9	35
20	Optoelectronic properties of candidate photovoltaic Cu ₂ PbSiS ₄ , Ag ₂ PbGeS ₄ and KAg ₂ SbS ₄ semiconductors. <i>Journal of Alloys and Compounds</i> , 2018, 746, 405-412.	2.8	10
21	Synthesis, crystal and electronic structures and optical properties of (HIm) ₂ Hg ₃ Cl ₈ and (HIm)HgI ₃ (HIm = imidazolium). <i>Journal of Solid State Chemistry</i> , 2018, 258, 551-558.	1.4	10
22	Broadband Emission in Hybrid Organic-Inorganic Halides of Group 12 Metals. <i>ACS Omega</i> , 2018, 3, 18791-18802.	1.6	70
23	Exploratory Work in the Quaternary System of Ca-Eu-Cd-Sb: Synthesis, Crystal, and Electronic Structures of New Zintl Solid Solutions. <i>Materials</i> , 2018, 11, 2146.	1.3	15
24	Unraveling luminescence mechanisms in zero-dimensional halide perovskites. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6398-6405.	2.7	168
25	Defect Engineering in Multinary Earth-Abundant Chalcogenide Photovoltaic Materials. <i>Advanced Energy Materials</i> , 2017, 7, 1602366.	10.2	250
26	Photovoltaic Materials: Defect Engineering in Multinary Earth-Abundant Chalcogenide Photovoltaic Materials (Adv. Energy Mater. 11/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	10.2	2
27	Efficient Generation of Long-Lived Triplet Excitons in 2D Hybrid Perovskite. <i>Advanced Materials</i> , 2017, 29, 1604278.	11.1	81
28	The Ternary Alkaline-Earth Metal Manganese Bismuthides Sr ₂ MnBi ₂ and Ba ₂ MnBi ₂ (x = 0.15). <i>Inorganic Chemistry</i> , 2017, 56, 12369-12378.	10.9	22
29	Synthesis, Crystal and Electronic Structures, and Optical Properties of (CH ₃ NH ₃) ₂ CdX ₄ (X = Cl, Br, I). <i>Inorganic Chemistry</i> , 2017, 56, 13878-13888.	1.9	78
30	II ₂ IV ₄ VI ₄ (I = Cu, Ag; II = Sr, Ba; IV = Ge, Sn; VI = S, Se): Chalcogenides for Thin-Film Photovoltaics. <i>Chemistry of Materials</i> , 2017, 29, 7868-7879.	3.2	87
31	ZrFlux growth and characterization of Ce-substituted Nd ₂ B single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 424, 1-9.	3.6	16
32	Organic-Inorganic Perovskites: Structural Versatility for Functional Materials Design. <i>Chemical Reviews</i> , 2016, 116, 4558-4596.	23.0	2,147
33	Tetragonal and collapsed-tetragonal phases of CaFe ₂ As ₁₆ : A view from angle-resolved photoemission and dynamical mean-field theory. <i>Physical Review B</i> , 2016, 93, .	11.1	16
34	Employing Lead Thiocyanate Additive to Reduce the Hysteresis and Boost the Fill Factor of Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2016, 28, 5214-5221.	11.1	487
35	BaCu ₂ Sn(S,Se) ₄ : Earth-Abundant Chalcogenides for Thin-Film Photovoltaics. <i>Chemistry of Materials</i> , 2016, 28, 4771-4780.	3.2	131
36	Alloying and Defect Control within Chalcogenide Perovskites for Optimized Photovoltaic Application. <i>Chemistry of Materials</i> , 2016, 28, 821-829.	3.2	175

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37	Photovoltaic Properties of Two-Dimensional $(\text{CH}_3\text{NH}_3)_2\text{Pb}(\text{SCN})_2$ Perovskite: A Combined Experimental and Density Functional Theory Study. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1213-1218.	2.1	135
38	Viability of Lead-Free Perovskites with Mixed Chalcogen and Halogen Anions for Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6435-6441.	1.5	72
39	Thin-Film Deposition and Characterization of a Sn-Deficient Perovskite Derivative Cs_2Sn_6 . <i>Chemistry of Materials</i> , 2016, 28, 2315-2322.	3.2	329
40	Thin-Film Preparation and Characterization of $\text{Cs}_3\text{Sb}_2\text{I}_9$: A Lead-Free Layered Perovskite Semiconductor. <i>Chemistry of Materials</i> , 2015, 27, 5622-5632.	3.2	653
41	Room-Temperature $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ is not Tetragonal: Direct Observation of Magnetoelastic Interactions in Pnictide Superconductors. <i>Advanced Materials</i> , 2015, 27, 2715-2721.	11.1	10
42	Robust antiferromagnetism preventing superconductivity in pressurized $(\text{Ba}_{0.61}\text{K}_{0.39})\text{Mn}_2\text{Bi}_2$. <i>Scientific Reports</i> , 2015, 4, 7342.	1.6	5
43	Primary chalcogenides C_2S_2	1.1	9
44	Cu Substitution Effects on the Local Magnetic Properties of $\text{Ba}(\text{Fe}_{1-x}\text{Cu}_x)_2\text{As}_2$: A Site-Selective ^{75}As and ^{63}Cu NMR Study. <i>Physical Review Letters</i> , 2014, 113, 117001.	2.9	20
45	Local Inhomogeneity and Filamentary Superconductivity in Pr-Doped CaFe_2As_2 . <i>Physical Review Letters</i> , 2014, 112, 047005.	2.9	41
46	Annealing effects on the properties of BFe_2As_2 (B = Ca, Sr, Ba) superconducting parents. <i>Dalton Transactions</i> , 2014, 43, 14971-14975.	1.6	12
47	Synthesis, Crystal Structure, and Electronic Properties of the $\text{CaRE}_3\text{SbO}_4$ and $\text{Ca}_2\text{RE}_8\text{Sb}_3\text{O}_{10}$ phases (RE) Tj ETQq1.10.784314 rgBT	3.2	5
48	Complex structures of different CaFe_2As_2 samples. <i>Scientific Reports</i> , 2014, 4, 4120.	1.6	41
49	Ferromagnetism of Fe_3Sn and Alloys. <i>Scientific Reports</i> , 2014, 4, 7024.	1.6	62
50	Crystal, magnetic and electronic structures and properties of new BaMnPn (Pn = As, Sb, Bi). <i>Scientific Reports</i> , 2013, 3, 2154.	1.6	27
51	Crystals, magnetic and electronic properties of a new ThCr_2Si_2 -type BaMn_2Bi_2 and K-doped compositions. <i>Journal of Solid State Chemistry</i> , 2013, 204, 32-39.	1.4	37
52	Effect of molybdenum hole substitution in BaFe_2As_2 . <i>Physical Review B</i> , 2012, 85, .	1.1	27
53	Crystal and electronic structures of metallic $\text{Ba}_2\text{Pd}_5\text{Ge}_4$. <i>Dalton Transactions</i> , 2012, 41, 12920.	1.6	1
54	Metallic properties of $\text{Ba}_2\text{Cu}_3\text{P}_4$ and BaCu_2Pn_2 (Pn=As, Sb). <i>Journal of Solid State Chemistry</i> , 2012, 191, 213-219.	1.4	22

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55	Properties of binary transition-metal arsenides (TAs). Superconductor Science and Technology, 2012, 25, 084016. Temperature-composition phase diagrams for Ba	1.8	51
56	Synthesis, Crystal Structures and Properties of the Zintl Phases Sr_2ZnP_2 , Sr_2ZnAs_2 , Sr_2ZnSb_2 and Sr_2ZnBi_2 ($A = Sr$ and Eu). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 2018-2025.	1.1	8
57	Syntheses, and crystal and electronic structures of the new Zintl phases Na_2ACdSb_2 and K_2ACdSb_2 ($A = Ca, Sr, Ba, Eu, Yb$): Structural relationship with Yb_2CdSb_2 and the solid solutions $Sr_2A_xCdSb_2$, $Ba_2A_xCdSb_2$ and $Eu_2A_xYbxCdSb_2$. Journal of Solid State Chemistry, 2011, 184, 432-440.	1.4	39
59	Spin glass and semiconducting behavior in one-dimensional $BaFe_2\tilde{I}Se_3(\tilde{I} \approx 0.2)$ crystals. Physical Review B, 2011, 84, .	1.1	58
60	Pentaeuropium dicadmium pentaantimonide oxide, $Eu_5Cd_2Sb_5O$. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, i11-i11.	0.2	3
61	New quaternary Zintl phases $A_2Cd_2Sb_3$ ($A = Ca, Sr$). Tj ETQq1 1 0.784314 rgBT / Over	1.0	28
62	Undecaeuropium hexazinc dodecaarsenide. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, i24-i24.	0.2	17
63	Isolated $[ZnPn_2]^{4-}$ Chains in the Zintl Phases Ba_2ZnPn_2 ($Pn = As, Sb, Bi$)”Synthesis, Structure, and Bonding. Inorganic Chemistry, 2010, 49, 5173-5179.	1.9	62
64	Synthesis, crystal and electronic structures of the new quaternary phases $A_5Cd_2Sb_5F$ ($A = Sr, Ba, Eu$), and $Ba_5Cd_2Sb_5O_x$ ($0.5 < x < 0.7$). Dalton Transactions, 2010, 39, 11335.	1.6	17
65	Synthesis, crystallographic and theoretical studies of the new Zintl phases $Ba_2Cd_2Pn_3$ ($Pn = As, Sb$), and the solid solutions $(Ba_1A_xSr_x)_2Cd_2Sb_3$ and $(Ba_2A_xCd_x)_3Sb_3$. Dalton Transactions, 2010, 39, 1063-1070.	1.6	67
66	Synthesis, structure and physical properties of the new Zintl phases $Eu_{11}Zn_6Sb_{12}$ and $Eu_{11}Cd_6Sb_{12}$. Journal of Solid State Chemistry, 2008, 181, 2690-2696.	1.4	51
67	Zinc-deficiency in intermetallics with the $NaZn_{13}$ type. Journal of Alloys and Compounds, 2008, 463, 119-123.	2.8	10
68	Synthesis, Structure, and Bonding of the Zintl Phase $Ba_3Cd_2Sb_4$. Inorganic Chemistry, 2008, 47, 11237-11244.	1.9	50
69	catena-Poly[[[bis(cyclohexyldiphenylphosphine- \hat{P})silver(I)] $_{1/4}$ -cyano- \hat{N} :C-silver(I)- $_{1/4}$ -cyano- \hat{N} :C:N] dichloromethane solvate]. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m1902-m1903.	0.2	0