Andrzej Kolezynski

List of Publications by Year
in descending order

64	667	567281 15	713466 21
papers	citations	h-index	g-index

65	65	65	763
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The structure of geopolymers â€“ Theoretical studies. Journal of Molecular Structure, 2018, 1163, 465-471.	3.6	59
2	Thermoelectric properties of Cu2S obtained by high temperature synthesis and sintered by IHP method. Ceramics International, 2020, 46, 25460-25466.	4.8	28
3	Crystal structure, electronic structure, and bonding properties of anhydrous nickel oxalate. Journal of Thermal Analysis and Calorimetry, 2013, 113, 319-328.	3.6	25
4	The structure, electrical properties and chemical stability of porous Nb-doped SrTiO₃ â€“ experimental and theoretical studies. RSC Advances, 2017, 7, 28898-28908.	3.6	25
5	New high temperature amorphous protective coatings for Mg2Si thermoelectric material. Ceramics International, 2019, 45, 10230-10235.	4.8	24
6	Bismuth doped Mg 2 Si with improved homogeneity: Synthesis, characterization and optimization of thermoelectric properties. Journal of Physics and Chemistry of Solids, 2017, 103, 147-159.	4.0	23
7	From the Molecular Picture to the Band Structure of Cubic and Tetragonal Barium Titanate. Ferroelectrics, 2005, 314, 123-134.	0.6	22
8	Experimental and theoretical studies of structural and electrical properties of highly porous Sr 1-x Y x TiO 3. Solid State Ionics, 2017, 302, 173-179.	2.7	21
9	Crystal-chemical aspects of phase transitions in barium titanate. Solid State Communications, 2003, 127, 557-562.	1.9	20
10	Chemical bond in ferroelectric perovskites. Ferroelectrics, 2000, 237, 57-64.	0.6	19
11	The influence of the long-range order on the vibrational spectra of structures based on sodalite cage. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 144, 273-280.	3.9	19
12	First principles studies of thermal decomposition of anhydrous zinc oxalate. Journal of Thermal Analysis and Calorimetry, 2009, 96, 645-651.	3.6	18
13	Vibrational Spectra of Zeolite Y as a Function of Ion Exchange. Molecules, 2021, 26, 342.	3.8	18
14	The structural, microstructural and thermoelectric properties of Mg2Si synthesized by SPS method under excess Mg content conditions. Journal of Alloys and Compounds, 2019, 775, 138-149.	5.5	17
15	The structure and bonding properties of chosen phenyl ladder-like silsesquioxane clusters. Journal of Molecular Structure, 2013, 1044, 314-322.	3.6	16
16	HPHT synthesis of highly doped InxCo4Sb12 â€“ Experimental and theoretical study. Journal of Alloys and Compounds, 2017, 727, 1178-1188.	5.5	16
17	Structural and Thermoelectric Properties of Polycrystalline p-Type Mg2âˆ’x Li x Si. Journal of Electronic Materials, 2016, 45, 3418-3426.	2.2	15
18	Structural, thermoelectric and stability studies of Fe-doped copper sulfide. Solid State Ionics, 2020, 350, 115322.	2.7	15

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19	Thermoelectric Properties of Cu2Se Synthesized by Hydrothermal Method and Densified by SPS Technique. Materials, 2021, 14, 3650.	2.9	15
20	FP-LAPW study of anhydrous cadmium and silver oxalates: electronic structure and electron density topology. Physica B: Condensed Matter, 2010, 405, 3650-3657.	2.7	14
21	Li doped Mg2Si p-type thermoelectric material: Theoretical and experimental study. Computational Materials Science, 2015, 100, 84-88.	3.0	14
22	Experimental and theoretical spectroscopic studies of Ag-, Cd- and Pb-sodalite. Journal of Molecular Structure, 2016, 1126, 110-116.	3.6	14
23	Si-O-C amorphous coatings for high temperature protection of In0.4Co4Sb12 skutterudite for thermoelectric applications. Journal of Applied Physics, 2019, 125, 215113.	2.5	14
24	Theoretical studies of thermal decomposition of anhydrous cadmium and silver oxalates. Journal of Thermal Analysis and Calorimetry, 2009, 96, 167-173.	3.6	13
25	Pauling's electrostatic rule for partially covalent/partially ionic crystals. Journal of Physics and Chemistry of Solids, 2000, 61, 1847-1853.	4.0	12
26	Theoretical approach to thermal decomposition process of chosen anhydrous oxalates. Journal of Thermal Analysis and Calorimetry, 2009, 97, 77-83.	3.6	12
27	Electronic structure and structural properties of Cr-doped SrTiO3 â€“ Theoretical investigation. Journal of Alloys and Compounds, 2018, 749, 931-938.	5.5	12
28	Vibrational spectra of a baghdadite synthetic analogue. Vibrational Spectroscopy, 2015, 76, 1-5.	2.2	11
29	Towards band gap engineering in skutterudites: The role of X4 rings geometry in CoSb3-RhSb3 system. Journal of Alloys and Compounds, 2017, 691, 299-307.	5.5	11
30	Model potentials in studies of atomic electron density distribution. International Journal of Quantum Chemistry, 1996, 57, 1097-1106.	2.0	9
31	Theoretical studies of thermal decomposition of anhydrous cadmium and silver oxalates. Journal of Thermal Analysis and Calorimetry, 2009, 96, 161-165.	3.6	9
32	Electronic and transport properties of polycrystalline Ba8Ga15Ge31 type I clathrate prepared by SPS method. Journal of Solid State Chemistry, 2012, 193, 114-121.	2.9	9
33	Theoretical analysis of electronic and structural properties of anhydrous calcium oxalate. Journal of Thermal Analysis and Calorimetry, 2010, 99, 947-955.	3.6	8
34	Theoretical studies of electronic and crystal structure properties of anhydrous mercury oxalate. Journal of Thermal Analysis and Calorimetry, 2010, 101, 499-504.	3.6	8
35	Theoretical and experimental spectroscopic studies of Bi dopant location in Mg2Si. Vibrational Spectroscopy, 2015, 76, 31-37.	2.2	8
36	Theoretical studies of bonding properties and vibrational spectra of chosen ladder-like silsesquioxane clusters. Journal of Molecular Structure, 2014, 1075, 599-604.	3.6	7

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37	New approach for determination of the influence of long-range order and selected ring oscillations on IR spectra in zeolites. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 195, 62-67.	3.9	7
38	Phase Transitions in BaTiO3from IR Autocorrelation Spectrum. Ferroelectrics, 2005, 315, 73-81.	0.6	5
39	Periodic model of an LTA framework. Journal of Molecular Modeling, 2015, 21, 275.	1.8	5
40	Periodic model of LTA framework containing various non-tetrahedral cations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 157, 17-25.	3.9	5
41	First-Principles Study of the Electronic Structure and Bonding Properties of X8C46 and X8B6C40 (X:) Tj ETQq1 1 0.784314 rgBT /Ove	2.2	5
42	First principles studies of Fe-doped Cu2S â€“ Theoretical investigation. Solid State Ionics, 2019, 334, 36-42.	2.7	5
43	Self-compensating defects in AgSbTe2 from first principles studies. Journal of Alloys and Compounds, 2019, 787, 1136-1142.	5.5	5
44	Functional derivative ?E/?? in calculation of chemical potential for the Kohn-Sham electronic system. International Journal of Quantum Chemistry, 1994, 51, 569-575.	2.0	4
45	Theoretical and Experimental Study on Thermoelectric Properties of Ba8TM x Ga y Ge46â€“xâ€“y (TMÂ=ÂZn,) Tj ETQq1 1 0.784314 rg	2.2	4
46	Theoretical studies of cation sublattice ordering in AgSbTe2 and AgSbSe2 â€“ Electron density topology and bonding properties. Journal of Alloys and Compounds, 2018, 732, 293-299.	5.5	4
47	Molecular mechanics modelling of amorphous silicon oxycarbide clusters by bottom-up approach. Journal of Molecular Structure, 2020, 1208, 127930.	3.6	4
48	Effective crystal field approach to the binding energy calculation of alkaline metals. International Journal of Quantum Chemistry, 1994, 52, 321-328.	2.0	3
49	Theoretical studies of electronic structure and structural properties of anhydrous alkali metal oxalates. Journal of Thermal Analysis and Calorimetry, 2013, 114, 1391-1399.	3.6	3
50	Theoretical studies of electronic structure and structural properties of anhydrous alkali metal oxalates. Journal of Thermal Analysis and Calorimetry, 2014, 115, 841-852.	3.6	2
51	Application of TPO/TPR methods in oxidation investigations of CoSb3 and Mg2Si thermoelectrics with and without a protective coating of â€œblack glassâ€• Journal of Thermal Analysis and Calorimetry, 2020, 140, 2657-2666.	3.6	2
52	Model Studies of Microstructure Changes in Sintering of Ceramics. Solid State Phenomena, 0, 147-149, 890-895.	0.3	1
53	Vibrational Spectroscopy of Zeolites. Challenges and Advances in Computational Chemistry and Physics, 2019, , 301-332.	0.6	1
54	Siâ€“Oâ€“C amorphous coatings as a perspective protection against oxidation-caused degradation of Cu2S superionic thermoelectric materials. Ceramics International, 2021, 47, 12992-12996.	4.8	1

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55	Extremely Fast and Cheap Densification of Cu2S by Induction Melting Method. Materials, 2021, 14, 7311.	2.9	1
56	Anderson-Parr force gradient model in the description of diatomic molecules: charge transfer. Computational and Theoretical Chemistry, 1996, 362, 331-338.	1.5	0
57	Overlapping shells model applied to diamondlike crystals. International Journal of Quantum Chemistry, 1997, 61, 741-746.	2.0	0
58	Electron density in metallic crystal as an extremal with moving boundaries. International Journal of Quantum Chemistry, 1997, 62, 543-549.	2.0	0
59	Effective crystal potential from electronegativity viewpoint. International Journal of Quantum Chemistry, 2003, 91, 311-316.	2.0	0
60	Thermoelectric properties of polycrystalline type-I germanium clathrates Ba8Ga16-xGe30+x. , 2012, , .		0
61	Computational Methods in Spectroscopy. Challenges and Advances in Computational Chemistry and Physics, 2019, , 1-48.	0.6	0
62	The concepts of an atom and chemical bond in physics and chemistry: the role of approximations. Semina Scientiarum, 2011, 10, 31.	0.1	0
63	Studies on high pressure-high temperature synthesis of carbon clathrates. , 2016, , 512-513.	0.1	0
64	Experimental and Theoretical Studies on Possibility of Void Filling by Magnesium in Mg-Doped Tetrahedrites. Materials, 2022, 15, 4115.	2.9	0