Dominik KurzydÅ‚owski

List of Publications by Year
in descending order

42	650	516215 16	610482 24
papers	citations	h-index	g-index

44	44	44	487
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced Photocatalytic Water Splitting on Very Thin WO₃ Films Activated by High-Temperature Annealing. ACS Catalysis, 2018, 8, 10573-10580.	5.5	56
2	Freezing in Resonance Structures for Better Packing: XeF₂ Becomes (XeF⁺)(F^{â˜’}) at Large Compression. Inorganic Chemistry, 2011, 50, 3832-3840.	1.9	55
3	Silver route to cuprate analogs. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1495-1500.	3.3	47
4	KAgF3, K2AgF4 and K3Ag2F7: important steps towards a layered antiferromagnetic fluoroargentate(II),. CrystEngComm, 2009, 11, 1702.	1.3	38
5	Crystal and electronic structure, lattice dynamics and thermal properties of Ag(i)(SO3)R (R = F, CF3) Lewis acids in the solid state. Dalton Transactions, 2012, 41, 2034-2047.	1.6	28
6	Structural transition and unusually strong antiferromagnetic superexchange coupling in perovskite KAgF3. Chemical Communications, 2013, 49, 6262.	2.2	28
7	High-Pressure Behavior of Silver Fluorides up to 40 GPa. Inorganic Chemistry, 2017, 56, 14651-14661.	1.9	26
8	Xenon as a Mediator of Chemical Reactions? Case of Elusive Gold Monofluoride, AuF, and its Adduct with Xenon, XeAuF. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 1082-1086.	0.6	24
9	The contamination of inland waters by microplastic fibres under different anthropogenic pressure: Preliminary study in Central Europe (Poland). Waste Management and Research, 2020, 38, 1231-1238.	2.2	23
10	Elusive AuF in the solid state as accessed via high pressure comproportionation. Chemical Communications, 2008, , 1073.	2.2	22
11	Metal fluoride nanotubes featuring square-planar building blocks in a high-pressure polymorph of AgF₂. Dalton Transactions, 2017, 46, 14742-14745.	1.6	20
12	The Jahn-Teller Distortion at High Pressure: The Case of Copper Difluoride. Crystals, 2018, 8, 140.	1.0	20
13	Prediction of Extremely Strong Antiferromagnetic Superexchange in Silver(II) Fluorides: Challenging the Oxocuprates(II). Angewandte Chemie - International Edition, 2017, 56, 10114-10117.	7.2	19
14	Raman spectroscopy and surface-enhanced Raman spectroscopy (SERS) spectra of salivary glands carcinoma, tumor and healthy tissues and their homogenates analyzed by chemometry: Towards development of the novel tool for clinical diagnosis. Analytica Chimica Acta, 2021, 1177, 338784.	2.6	18
15	Dramatic enhancement of spinâ€“spin coupling and quenching of magnetic dimensionality in compressed silver difluoride. Chemical Communications, 2018, 54, 10252-10255.	2.2	17
16	Epitaxial engineering of flat silver fluoride cuprate analogs. Physical Review Materials, 2020, 4, .	0.9	17
17	Polymorphism of Fluoroargentates(II): Facile Collapse of a Layered Network of Î±â€K₂AgF₄ Due to the Insufficient Size of the Potassium Cation. European Journal of Inorganic Chemistry, 2010, 2010, 2919-2925.	1.0	16
18	Unique Silver(II) Fluorides. , 2016, , 231-260.		15

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19	Large exchange anisotropy in quasi-one-dimensional spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></m fluoride antiferromagnets with a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>d</mml:mi><mml:msup><mml:mrow><mml:mo>(</mr ground state. Physical Review B, 2017, 96, .	1.1	15
20	Fluorides of Silver Under Large Compression**. Chemistry - A European Journal, 2021, 27, 5536-5545.	1.7	14
21	Crystal, electronic, and magnetic structures of M₂AgF₄ (M = Naâ€“Cs) phases as viewed from the DFT+U method. Dalton Transactions, 2016, 45, 16255-16261.	1.6	13
22	Na₂AgF₄: 1D antiferromagnet with unusually short Ag²⁺â‹¯Ag²⁺separation. Dalton Transactions, 2013, 42, 2167-2173.	1.6	12
23	Local and Cooperative Jahnâ€“Teller Effect and Resultant Magnetic Properties of M₂AgF₄ (M = Naâ€“Cs) Phases. Inorganic Chemistry, 2016, 55, 11479-11489.	1.9	12
24	High-pressure stabilization of argon fluorides. Physical Chemistry Chemical Physics, 2016, 18, 2309-2313.	1.3	11
25	Hexacoordinated nitrogen(V) stabilized by high pressure. Scientific Reports, 2016, 6, 36049.	1.6	10
26	High-Pressure Phase Transitions of Zinc Difluoride up to 55 GPa. Inorganic Chemistry, 2020, 59, 2584-2593.	1.9	10
27	Lone-pair interactions and photodissociation of compressed nitrogen trifluoride. Journal of Chemical Physics, 2014, 141, 064706.	1.2	8
28	AgPO₂F₂and Ag₉(PO₂F₂)₁₄: the first Ag(<scp>i</scp>) and Ag(<scp>i</scp>)/Ag(<scp>ii</scp>) difluorophosphates with complex crystal structures. Dalton Transactions, 2015, 44, 19478-19486.	1.6	8
29	Phonon Dispersion Analysis as an Indispensable Tool for Predictions of Solid State Polymorphism and Dynamic Metastability: Case of Compressed Silane. Acta Physica Polonica A, 2011, 119, 895-900.	0.2	8
30	Phase Stability of Chloroform and Dichloromethane at High Pressure. Crystals, 2020, 10, 920.	1.0	7
31	Unexpected persistence of cis-bridged chains in compressed AuF₃. Chemical Communications, 2020, 56, 4902-4905.	2.2	7
32	Prediction of Extremely Strong Antiferromagnetic Superexchange in Silver(II) Fluorides: Challenging the Oxocuprates(II). Angewandte Chemie, 2017, 129, 10248-10251.	1.6	6
33	A first-principles investigation of pressure induced topological phase transitions in half-Heusler AgSrBi. Materials Advances, 2022, 3, 3938-3944.	2.6	6
34	High-Pressure Reactivity of Kr and F2â€”Stabilization of Krypton in the +4 Oxidation State. Crystals, 2017, 7, 329.	1.0	4
35	Photoelectrochemical Behavior of WO₃ in an Aqueous Methanesulfonic Acid Electrolyte. ACS Physical Chemistry Au, 2022, 2, 299-304.	1.9	3
36	First-Principles Prediction of Structures and Properties in Crystals. Crystals, 2019, 9, 463.	1.0	2

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37	Investigation of Topological and Catalytic Properties of Gold Iodide Monolayer: A Density Functional Theory Study. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	1.2	2
38	Hydrogen-Bonded Cyclic Dimers at Large Compression: The Case of 1H-pyrrolo[3,2-h]quinoline and 2-(2â€²-pyridyl)pyrrole. Molecules, 2021, 26, 3802.	1.7	1
39	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Na</mml:mi><mml:mi>Zn</mml:mi><mml:msub><mml:mi mathvariant="normal">F</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> as a low-pressure analog of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Mg</mml:mi><mml:mi>Si</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Ma	0.9	1
40	Potential energy barrier for proton transfer in compressed benzoic acid. RSC Advances, 2022, 12, 11436-11441.	1.7	1
41	High-pressure phase transition of AB3-type compounds: case of tellurium trioxide. RSC Advances, 2021, 11, 14316-14322.	1.7	0
42	Molecular Orbital Approach to Interpret High Pressure Phenomena â€“ Case of Elusive Gold Monofluoride. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , 357-372.	0.2	0