

Dominik Kurzydowski

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

37
papers

465
citations

13
h-index

19
g-index

44
ext. papers

565
ext. citations

4.4
avg, IF

4
L-index

#	Paper	IF	Citations
37	Freezing in resonance structures for better packing: XeF ₂ becomes (XeF ⁺)(F ⁻) at large compression. <i>Inorganic Chemistry</i> , 2011 , 50, 3832-40	5.1	48
36	Enhanced Photocatalytic Water Splitting on Very Thin WO ₃ Films Activated by High-Temperature Annealing. <i>ACS Catalysis</i> , 2018 , 8, 10573-10580	13.1	40
35	Silver route to cuprate analogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1495-1500	11.5	34
34	KAgF ₃ , K ₂ AgF ₄ and K ₃ Ag ₂ F ₇ : important steps towards a layered antiferromagnetic fluoroargentate(II). <i>CrystEngComm</i> , 2009 , 11, 1702	3.3	32
33	Crystal and electronic structure, lattice dynamics and thermal properties of Ag(I)(SO ₃)R (R = F, CF ₃) Lewis acids in the solid state. <i>Dalton Transactions</i> , 2012 , 41, 2034-47	4.3	23
32	Structural transition and unusually strong antiferromagnetic superexchange coupling in perovskite KAgF ₃ . <i>Chemical Communications</i> , 2013 , 49, 6262-4	5.8	22
31	High-Pressure Behavior of Silver Fluorides up to 40 GPa. <i>Inorganic Chemistry</i> , 2017 , 56, 14651-14661	5.1	21
30	Elusive AuF in the solid state as accessed via high pressure comproportionation. <i>Chemical Communications</i> , 2008 , 1073-5	5.8	21
29	Xenon as a Mediator of Chemical Reactions? Case of Elusive Gold Monofluoride, AuF, and its Adduct with Xenon, XeAuF. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008 , 634, 1082-1086	1.3	20
28	Dramatic enhancement of spin-spin coupling and quenching of magnetic dimensionality in compressed silver difluoride. <i>Chemical Communications</i> , 2018 , 54, 10252-10255	5.8	16
27	The Jahn-Teller Distortion at High Pressure: The Case of Copper Difluoride. <i>Crystals</i> , 2018 , 8, 140	2.3	15
26	Prediction of Extremely Strong Antiferromagnetic Superexchange in Silver(II) Fluorides: Challenging the Oxocuprates(II). <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10114-10117	16.4	14
25	Metal fluoride nanotubes featuring square-planar building blocks in a high-pressure polymorph of AgF. <i>Dalton Transactions</i> , 2017 , 46, 14742-14745	4.3	14
24	Polymorphism of Fluoroargentates(II): Facile Collapse of a Layered Network of K ₂ AgF ₄ Due to the Insufficient Size of the Potassium Cation. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 2919-2925	2.3	13
23	Epitaxial engineering of flat silver fluoride cuprate analogs. <i>Physical Review Materials</i> , 2020 , 4,	3.2	12
22	Na ₂ AgF ₄ : 1D antiferromagnet with unusually short Ag ²⁺ –Ag ²⁺ separation. <i>Dalton Transactions</i> , 2013 , 42, 2167-73	4.3	11
21	The contamination of inland waters by microplastic fibres under different anthropogenic pressure: Preliminary study in Central Europe (Poland). <i>Waste Management and Research</i> , 2020 , 38, 1231-1238	4	11

20	Unique Silver(II) Fluorides 2016 , 231-260		11
19	Local and Cooperative Jahn-Teller Effect and Resultant Magnetic Properties of MAgF (M = Na-Cs) Phases. <i>Inorganic Chemistry</i> , 2016 , 55, 11479-11489	5.1	10
18	Crystal, electronic, and magnetic structures of MAgF (M = Na-Cs) phases as viewed from the DFT+U method. <i>Dalton Transactions</i> , 2016 , 45, 16255-16261	4.3	10
17	High-pressure stabilization of argon fluorides. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2309-13	3.6	9
16	Large exchange anisotropy in quasi-one-dimensional spin-12 fluoride antiferromagnets with a d(z ² -1) ground state. <i>Physical Review B</i> , 2017 , 96,	3.3	8
15	Hexacoordinated nitrogen(V) stabilized by high pressure. <i>Scientific Reports</i> , 2016 , 6, 36049	4.9	8
14	Phonon Dispersion Analysis as an Indispensable Tool for Predictions of Solid State Polymorphism and Dynamic Metastability: Case of Compressed Silane. <i>Acta Physica Polonica A</i> , 2011 , 119, 895-900	0.6	7
13	AgPO ₂ F ₂ and Ag ₉ (PO ₂ F ₂) ₁₄ : the first Ag(i) and Ag(i)/Ag(ii) difluorophosphates with complex crystal structures. <i>Dalton Transactions</i> , 2015 , 44, 19478-86	4.3	5
12	Lone-pair interactions and photodissociation of compressed nitrogen trifluoride. <i>Journal of Chemical Physics</i> , 2014 , 141, 064706	3.9	5
11	Fluorides of Silver Under Large Compression*. <i>Chemistry - A European Journal</i> , 2021 , 27, 5536-5545	4.8	5
10	High-Pressure Phase Transitions of Zinc Difluoride up to 55 GPa. <i>Inorganic Chemistry</i> , 2020 , 59, 2584-2593	3.1	4
9	High-Pressure Reactivity of Kr and F ₂ Stabilization of Krypton in the +4 Oxidation State. <i>Crystals</i> , 2017 , 7, 329	2.3	4
8	Phase Stability of Chloroform and Dichloromethane at High Pressure. <i>Crystals</i> , 2020 , 10, 920	2.3	3
7	Prediction of Extremely Strong Antiferromagnetic Superexchange in Silver(II) Fluorides: Challenging the Oxocuprates(II). <i>Angewandte Chemie</i> , 2017 , 129, 10248-10251	3.6	3
6	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. <i>Analytica Chimica Acta</i> , 2021 , 1177, 338784	6.6	3
5	Unexpected persistence of cis-bridged chains in compressed AuF. <i>Chemical Communications</i> , 2020 , 56, 4902-4905	5.8	2
4	Molecular Orbital Approach to Interpret High Pressure Phenomena [Case of Elusive Gold Monofluoride. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2010 , 357-372	0.2	
3	High-pressure phase transition of AB-type compounds: case of tellurium trioxide.. <i>RSC Advances</i> , 2021 , 11, 14316-14322	3.7	

- 2 Investigation of Topological and Catalytic Properties of Gold Iodide Monolayer: A Density Functional Theory Study. *Physica Status Solidi - Rapid Research Letters*, 2100657 2.5
- 1 Potential energy barrier for proton transfer in compressed benzoic acid.. *RSC Advances*, 2022, 12, 11436-11441