Philip Kegler

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5760848/publications.pdf

Version: 2024-02-01

50	1,071	567144 15	434063 31
papers	citations	h-index	g-index

57	57	57	1069
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural incorporation of lanthanides (La, Eu, and Lu) into U3O8 as a function of the ionic radius. MRS Advances, 2022, 7, 128-133.	0.5	6
2	Long-term stability of uranium-oxide-based microparticle reference materials: Shelf-life in alcoholic suspension and storage media. MRS Advances, 2022, 7, 134-139.	0.5	3
3	Advances and perspectives of actinide chemistry fromex situhigh pressure and high temperature chemical studies. Dalton Transactions, 2022, 51, 7401-7415.	1.6	2
4	The first actinide polyiodate: a complex multifunctional compound with promising X-ray luminescence properties and proton conductivity. Chemical Communications, 2021, 57, 496-499.	2.2	15
5	Tilting and Distortion in Rutile-Related Mixed Metal Ternary Uranium Oxides: A Structural, Spectroscopic, and Theoretical Investigation. Inorganic Chemistry, 2021, 60, 2246-2260.	1.9	13
6	Chemical and structural investigations on uranium oxide-based microparticles as reference materials for analytical measurements. MRS Advances, 2021, 6, 125-130.	0.5	9
7	Achieving and Stabilizing Uranyl Bending via Physical Pressure. Inorganic Chemistry, 2021, 60, 8419-8422.	1.9	3
8	The Role of Acidity in the Synthesis of Novel Uranyl Selenate and Selenite Compounds and Their Structures. Crystals, 2021, 11, 965.	1.0	2
9	Chromium Doped UO2-Based Ceramics: Synthesis and Characterization of Model Materials for Modern Nuclear Fuels. Materials, 2021, 14, 6160.	1.3	15
10	Incorporation of iodine into uranium oxyhydroxide phases. Dalton Transactions, 2021, 50, 17257-17264.	1.6	4
11	On the change in UO₂ redox reactivity as a function of H₂O₂ exposure. Dalton Transactions, 2020, 49, 1241-1248.	1.6	17
12	Extreme condition high temperature and high pressure studies of the Kâ€“Uâ€“Moâ€“O system. Dalton Transactions, 2020, 49, 15843-15853.	1.6	5
13	Research for the Safe Management of Nuclear Waste at Forschungszentrum JÃ¼lich: Materials Chemistry and Solid Solution Aspects. Advanced Engineering Materials, 2020, 22, 1901417.	1.6	8
14	Modeling of Nuclear Waste Forms: State-of-the-Art and Perspectives. MRS Advances, 2020, 5, 213-222.	0.5	0
15	Twoâ€Dimensional Uranyl Borates: From Conventional to Extreme Synthetic Conditions. European Journal of Inorganic Chemistry, 2020, 2020, 407-416.	1.0	7
16	Crystal growth of novel 3D skeleton uranyl germanium complexes: influence of synthetic conditions on crystal structures. Dalton Transactions, 2020, 49, 2244-2257.	1.6	7
17	Structural and Spectroscopic Investigation of Novel 2D and 3D Uranium Oxo-Silicates/Germanates and Some Statistical Aspects of Uranyl Coordination in Oxo-Salts. Inorganic Chemistry, 2019, 58, 10333-10345.	1.9	6
18	Heating experiments relevant to the depletion of Na, K and Mn in the Earth and other planetary bodies. Chemie Der Erde, 2019, 79, 125540.	0.8	6

#	Article	IF	Citations
19	Rare-Earth Orthophosphates From Atomistic Simulations. Frontiers in Chemistry, 2019, 7, 197.	1.8	14
20	Structural and thermodynamic mixing properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0145.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mn><m Journal of Solid State Chemistry, 2019, 270, 470-478.	1.4	5
21	Hydrothermal Synthesis, Study, and Classification of Microporous Uranium Silicates and Germanates. Inorganic Chemistry, 2018, 57, 4745-4756.	1.9	17
22	Synthesis and Study of the First Zeolitic Uranium Borate. Crystal Growth and Design, 2018, 18, 498-505.	1.4	15
23	Zr-containing layered double hydroxides: Synthesis, characterization, and evaluation of thermodynamic properties. Applied Clay Science, 2018, 151, 54-65.	2.6	33
24	Synthesis of Magnesium Carbonate via Carbonation under High Pressure in an Autoclave. Metals, 2018, 8, 993.	1.0	32
25	High-Pressure Synthesis, Structural, and Spectroscopic Studies of the Niâ€“Uâ€“O System. Inorganic Chemistry, 2018, 57, 13847-13858.	1.9	14
26	Comparison of Uranium(VI) and Thorium(IV) Silicates Synthesized via Mixed Fluxes Techniques. Inorganic Chemistry, 2018, 57, 6734-6745.	1.9	12
27	Formation of Open Framework Uranium Germanates: The Influence of Mixed Molten Flux and Charge Density Dependence in U-Silicate and U-Germanate Families. Inorganic Chemistry, 2018, 57, 11201-11216.	1.9	17
28	Thorium Chemistry in Oxo-Tellurium System under Extreme Conditions. Inorganic Chemistry, 2017, 56, 2926-2935.	1.9	8
29	Composition dependent order-disorder transition in Nd Zr1â^'O2â^'0.5 pyrochlores: A combined structural, calorimetric and ab initio modeling study. Acta Materialia, 2017, 125, 166-176.	3.8	30
30	New insights into phosphate based materials for the immobilisation of actinides. Radiochimica Acta, 2017, 105, 961-984.	0.5	51
31	Divergent Structural Chemistry of Uranyl Borates Obtained from Solid State and Hydrothermal Conditions. Crystal Growth and Design, 2017, 17, 5898-5907.	1.4	15
32	Structure and phase transition in BaThO3: A combined neutron and synchrotron X-ray diffraction study. Journal of Alloys and Compounds, 2017, 727, 1044-1049.	2.8	10
33	Structural, vibrational, and thermochemical properties of the monazite-type solid solution La1â€“Pr PO4. Journal of Solid State Chemistry, 2017, 245, 82-88.	1.4	34
34	Thermochemistry of La1â^'xLnxPO4-monazites (Ln= Gd, Eu). Journal of Chemical Thermodynamics, 2017, 105, 396-403.	1.0	39
35	Rich Non-centrosymmetry in a Naâ€“Uâ€“Te Oxo-System Achieved under Extreme Conditions. Inorganic Chemistry, 2016, 55, 4626-4635.	1.9	11
36	Investigation of reactivity and structure formation in a Kâ€“Teâ€“U oxo-system under high-temperature/high-pressure conditions. Dalton Transactions, 2016, 45, 15225-15235.	1.6	7

#	Article	IF	Citations
37	Lead Oxychloride Borates Obtained under Extreme Conditions. Inorganic Chemistry, 2016, 55, 9077-9084.	1.9	15
38	Giant Volume Change and Topological Gaps in Temperatureâ€•and Pressureâ€•Induced Phase Transitions: Experimental and Computational Study of ThMo₂O₈. Chemistry - A European Journal, 2016, 22, 946-958.	1.7	8
39	Influence of extreme conditions on the formation and structures of caesium uranium(vi) arsenates. Dalton Transactions, 2015, 44, 20735-20744.	1.6	10
40	High-Temperature Phase Transitions, Spectroscopic Properties, and Dimensionality Reduction in Rubidium Thorium Molybdate Family. Inorganic Chemistry, 2014, 53, 3088-3098.	1.9	22
41	Th(As^{III}₄As^V₄O₁₈): a Mixed-Valent Oxoarsenic(III)/arsenic(V) Actinide Compound Obtained under Extreme Conditions. Inorganic Chemistry, 2014, 53, 8194-8196.	1.9	15
42	Influence of suspended particulate matter on salinity measurements. Continental Shelf Research, 2014, 85, 1-8.	0.9	13
43	High Structural Complexity of Potassium Uranyl Borates Derived from High-Temperature/High-Pressure Reactions. Inorganic Chemistry, 2013, 52, 5110-5118.	1.9	32
44	VarietÃten von Schmelzelithologien in den Impaktiten des Steinheimer Beckens (SW-Deutschland). Zeitschrift Der Deutschen Gesellschaft Fur Geowissenschaften, 2013, 164, 491-501.	0.1	4
45	Preface: EMPG XIV. European Journal of Mineralogy, 2013, 25, 253-253.	0.4	0
46	Rich Coordination of Nd³⁺ in Mg₂Nd₁₃(BO₃)₈(SiO₄)₄(OH)₃O<sub>, Derived from High-Pressure/High-Temperature Conditions. Inorganic Chemistry, 2012, 51, 3941-3943.	4	
47	Heterogeneous accretion, composition and coreâ€“mantle differentiation of the Earth. Earth and Planetary Science Letters, 2011, 301, 31-42.	1.8	352
48	Comment on â€œPrediction of metalâ€“silicate partition coefficients for siderophile elements: An update and assessment of PT conditions for metalâ€“silicate equilibrium during accretion of the Earthâ€•by K. Righter, EPSL 304 (2011) 158â€“167, 2011. Earth and Planetary Science Letters, 2011, 312, 516-518.	1.8	9
49	Determination of the formal Ge-oxide species in silicate melts at oxygen fugacities applicable to terrestrial core formation scenarios. European Journal of Mineralogy, 2011, 23, 369-378.	0.4	17
50	New Ni and Co metal-silicate partitioning data and their relevance for an early terrestrial magma ocean. Earth and Planetary Science Letters, 2008, 268, 28-40.	1.8	78