

Eunja Kim

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3870350/eunja-kim-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

56
papers

864
citations

19
h-index

27
g-index

56
ext. papers

970
ext. citations

3.7
avg, IF

4.31
L-index

#	Paper	IF	Citations
56	Thermodynamic properties of metaschoepite predicted from density functional perturbation theory. <i>Chemical Physics Letters</i> , 2020 , 757, 137878	2.5	0
55	Radionuclide incorporation in negative thermal expansion $\text{Zr}(\text{WO}_4)_2$: A density functional theory study. <i>Chemical Physics Letters</i> , 2020 , 744, 137172	2.5	1
54	Crystal and Electronic Structures of ANaIO Periodate Double Perovskites (A = Sr, Ca, Ba): Candidate Wasteforms for I-129 Immobilization. <i>Inorganic Chemistry</i> , 2020 , 59, 18407-18419	5.1	3
53	Zirconium chloride molecular species: combining electron impact mass spectrometry and first principles calculations. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	1
52	A comprehensive assessment of the low-temperature thermal properties and thermodynamic functions of CeO. <i>Journal of Chemical Physics</i> , 2019 , 151, 044202	3.9	1
51	Structure-thermodynamics relationship of schoepite from first-principles. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25569-25576	3.6	3
50	Phosphorus Dimerization in Gallium Phosphide at High Pressure. <i>Inorganic Chemistry</i> , 2018 , 57, 2432-2437	7.1	7
49	Assessing exchange-correlation functionals for elasticity and thermodynamics of ZrW_2O_8 : A density functional perturbation theory study. <i>Chemical Physics Letters</i> , 2018 , 698, 195-199	2.5	6
48	Reverse-martensitic hcp-to-fcc transformation in technetium under shock compression. <i>Journal of Applied Physics</i> , 2018 , 124, 035903	2.5	5
47	Pressure-Tuneable Visible-Range Band Gap in the Ionic Spinel Tin Nitride. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11623-11628	16.4	16
46	Lattice dynamics and thermomechanical properties of zirconium(IV) chloride: Evidence for low-temperature negative thermal expansion. <i>Chemical Physics Letters</i> , 2018 , 691, 98-102	2.5	5
45	Synthesis of a novel strontium-based wide-bandgap semiconductor via X-ray photochemistry under extreme conditions. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12473-12478	7.1	7
44	First-Principles Structural, Mechanical, and Thermodynamic Calculations of the Negative Thermal Expansion Compound $\text{Zr}(\text{WO})(\text{PO})$. <i>ACS Omega</i> , 2018 , 3, 15780-15788	3.9	7
43	Pressure-Tuneable Visible-Range Band Gap in the Ionic Spinel Tin Nitride. <i>Angewandte Chemie</i> , 2018 , 130, 11797-11802	3.6	3
42	Infrared and Raman spectroscopy of ZrW_2O_8 : A comprehensive density functional perturbation theory and experimental study. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1373-1384	2.3	8
41	Zirconium tetrachloride revisited. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 307-311	1.8	2
40	Model representations of kerogen structures: An insight from density functional theory calculations and spectroscopic measurements. <i>Scientific Reports</i> , 2017 , 7, 7068	4.9	13

39	Density Functional Analysis of Fluorite-Structured (Ce, Zr)O ₂ /CeO ₂ Interfaces. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14678-14687	3.8	7
38	Assessing Hubbard-corrected AM05+U and PBEsol+U density functionals for strongly correlated oxides CeO and CeO. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26816-26826	3.6	19
37	Technetium incorporation in scheelite: insights from first-principles. <i>Dalton Transactions</i> , 2016 , 45, 18171-18176	4.3	3
36	Energetics of Sn ²⁺ isomorphic substitution into hydroxylapatite: first-principles predictions. <i>RSC Advances</i> , 2016 , 6, 107286-107292	3.7	0
35	Characterization of pentavalent and hexavalent americium complexes in nitric acid using X-ray absorption fine structure spectroscopy and first-principles modeling. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016 , 309, 1087-1095	1.5	7
34	Equation of state for technetium from X-ray diffraction and first-principle calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2016 , 95, 6-11	3.9	4
33	Uncloning the Thermodynamics of the Studtite to Metastudtite Shear-Induced Transformation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16553-16560	3.8	28
32	Relationship between crystal structure and thermo-mechanical properties of kaolinite clay: beyond standard density functional theory. <i>Dalton Transactions</i> , 2015 , 44, 12550-60	4.3	26
31	Thermodynamics of technetium: reconciling theory and experiment using density functional perturbation analysis. <i>Dalton Transactions</i> , 2015 , 44, 12735-42	4.3	11
30	Interaction of cesium adatoms with free-standing graphene and graphene-veiled SiO ₂ surfaces. <i>RSC Advances</i> , 2015 , 5, 38623-38629	3.7	2
29	Mechanical properties of zirconium alloys and zirconium hydrides predicted from density functional perturbation theory. <i>Dalton Transactions</i> , 2015 , 44, 18769-79	4.3	37
28	On the mechanical stability of uranyl peroxide hydrates: implications for nuclear fuel degradation. <i>RSC Advances</i> , 2015 , 5, 79090-79097	3.7	41
27	Speciation of technetium peroxo complexes in sulfuric acid revisited. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 303, 1163-1167	1.5	2
26	Layered uranium(VI) hydroxides: structural and thermodynamic properties of dehydrated schoepite UO ₂ (OH)·xH ₂ O. <i>Dalton Transactions</i> , 2014 , 43, 17191-9	4.3	33
25	Solar Energy Storage in Phase Change Materials: First-Principles Thermodynamic Modeling of Magnesium Chloride Hydrates. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4618-4625	3.8	38
24	Magic numbers in small iron clusters: A first-principles study. <i>Chemical Physics Letters</i> , 2014 , 613, 59-63	2.5	23
23	Nuclear forward scattering and first-principles studies of the iron oxide phase Fe ₄ O ₅ . <i>Physical Review B</i> , 2014 , 90,	3.3	7
22	Diperoxo Pertechentic Acid Characterized by Spectroscopic and Quantum Chemical Studies. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 4595-4600	2.3	4

21	X-ray Crystallographic and First-Principles Theoretical Studies of K ₂ [TcOCl ₅] and UV/Vis Investigation of the [TcOCl ₅] ²⁻ and [TcOCl ₄] ⁻ Ions. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 1097-1104	2-3	1
20	On the role of strong electron correlations in the surface properties and chemistry of uranium dioxide. <i>Dalton Transactions</i> , 2013 , 42, 4570-8	4-3	31
19	Structures of uranyl peroxide hydrates: a first-principles study of studtite and metastudtite. <i>Dalton Transactions</i> , 2012 , 41, 9748-52	4-3	50
18	Interplay between structure, stoichiometry and properties of technetium nitrides. <i>Dalton Transactions</i> , 2011 , 40, 6738-44	4-3	18
17	Density functional analysis of the trigonal uranyl equatorial coordination in hexahomotrioxacalix[3]arene-based macrocyclic complexes. <i>Inorganic Chemistry</i> , 2010 , 49, 1465-70	5-1	14
16	Structural and magnetic properties of Tcn@C ₆₀ endohedral metallofullerenes: First-principles predictions. <i>Physical Review B</i> , 2010 , 81,	3-3	18
15	Organic cyclic difluoramino-nitramines: infrared and Raman spectroscopy of 3,3,7,7-tetrakis(difluoramino)octahydro 1,5-dinitro-1,5-diazocine (HNF _X). <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 964-971	2-3	6
14	Nanoscale building blocks for the development of novel proton exchange membrane fuel cells. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 3283-6	3-4	33
13	High-pressure studies of 1,3,5,7-cyclooctatetraene: experiment and theory. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 11501-7	2-8	11
12	Mechanism of fullerene hydrogenation by polyamines: Ab initio density functional calculations. <i>Physical Review B</i> , 2008 , 78,	3-3	28
11	Pressure-driven phase transitions in NaBH ₄ : theory and experiments. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 13873-6	3-4	32
10	Cubic phases of BC ₂ N: A first-principles study. <i>Physical Review B</i> , 2007 , 75,	3-3	40
9	Martensitic fcc-to-hcp transformations in solid xenon under pressure: a first-principles study. <i>Physical Review Letters</i> , 2006 , 96, 035504	7-4	28
8	Calculation of bulk modulus for highly anisotropic materials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 326, 442-448	2-3	23
7	First-principles study of phase stability of BN under pressure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 319, 384-389	2-3	34
6	Dimer-Exchange Mechanism in Surfactant-Mediated Si/Ge Epitaxial Growth. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 891-894	3-4	3
5	Tetragonal crystalline carbon nitrides: theoretical predictions. <i>Physical Review Letters</i> , 2001 , 86, 652-5	7-4	26
4	Structural Relaxation of Vacancies in Amorphous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 467, 555		2

- 3 Transferable Tight-Binding Approach Of Si-H Interactions. *Materials Research Society Symposia Proceedings*, **1997**, 491, 347
- 2 Electronic structure of vacancies in amorphous silicon. *Physical Review B*, **1995**, 51, 5429-5432 33 21
- 1 Structural, electronic, and vibrational properties of liquid and amorphous silicon: Tight-binding molecular-dynamics approach. *Physical Review B*, **1994**, 49, 1743-1749 33 61