

Kyoung-Won Park

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Prediction of Ln^{3+}  $\langle \text{mml:mrow} \langle \text{mml:mo linebreak="goodbreak" linebreakstyle="after"} \hat{\alpha} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle 4f$ energy levels in $\hat{\text{I}}^2\text{-NaYF}_4\text{:Ln}^{3+}$ and understanding of absorption behaviors. <i>Materials Chemistry and Physics</i> , 2022, 275, 125317.	2.0	4
2	Electrochemically controlled defect chemistry: From oxygen excess to deficiency. <i>Acta Materialia</i> , 2021, 211, 116866.	3.8	3
3	Deformation-induced charge redistribution in ceria thin film at room temperature. <i>Acta Materialia</i> , 2020, 191, 70-80.	3.8	4
4	Optimal methodology for explicit solvation prediction of band edges of transition metal oxide photocatalysts. <i>Communications Chemistry</i> , 2019, 2, .	2.0	28
5	Photocatalytic hydrogen evolution activity of Co/CoO hybrid structures: a first-principles study on the Co layer thickness effect. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16176-16189.	5.2	10
6	Mechanism for spontaneous oxygen and hydrogen evolution reactions on CoO nanoparticles. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6708-6719.	5.2	29
7	Understanding photocatalytic overall water splitting on CoO nanoparticles: Effects of facets, surface stoichiometry, and the CoO/water interface. <i>Journal of Catalysis</i> , 2018, 365, 115-124.	3.1	39
8	Role of atomic-scale chemical heterogeneities in improving the plasticity of Cu-Zr-Ag bulk amorphous alloys. <i>Acta Materialia</i> , 2018, 157, 209-217.	3.8	31
9	Hydrogen-induced structural change in Ni ₉₀ Al ₁₀ metallic glass. <i>Journal of Alloys and Compounds</i> , 2011, 509, S456-S459.	2.8	9
10	Deformation behaviors under tension and compression: Atomic simulation of Cu ₆₅ Zr ₃₅ metallic glass. <i>Intermetallics</i> , 2011, 19, 1168-1173.	1.8	19
11	Relationship between activation energy for hydrogen permeation and hydrogen permeation properties of amorphous Cu ₅₀ Zr ₅₀ and Cu ₆₅ Zr ₃₅ membranes. <i>Intermetallics</i> , 2011, 19, 1887-1890.	1.8	15
12	Strain localization in annealed Cu ₅₀ Zr ₅₀ metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5319-5326.	2.6	8
13	Effect of hydrogenation on the mechanical property of amorphous Ni ₉₀ Al ₁₀ membranes. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 9324-9334.	3.8	16
14	Correlation between plasticity and other materials properties of Cu-Zr bulk metallic glasses: An atomistic simulation study. <i>Acta Materialia</i> , 2011, 59, 805-811.	3.8	31
15	Crystalline Ge quantum dots embedded in SiO ₂ matrix synthesized by plasma immersion ion implantation. <i>Nanotechnology</i> , 2011, 22, 285605.	1.3	12
16	Shear localization and the plasticity of bulk amorphous alloys. <i>Scripta Materialia</i> , 2010, 63, 231-234.	2.6	33
17	Nanoindentation analysis of time-dependent deformation in as-cast and annealed Cu-Zr bulk metallic glass. <i>Intermetallics</i> , 2010, 18, 1898-1901.	1.8	50
18	Paradoxical phenomena between the homogeneous and inhomogeneous deformations of metallic glasses. <i>Applied Physics Letters</i> , 2009, 94, 021907.	1.5	18

#	ARTICLE	IF	CITATIONS
19	Plasticity of amorphous alloys assessed by their homogeneous flow rate. Scripta Materialia, 2009, 61, 363-366.	2.6	14
20	A methodology of enhancing the plasticity of amorphous alloys: Elastostatic compression at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 499, 529-533.	2.6	18
21	Plasticity improvement of amorphous alloy via skim cold rolling. Metals and Materials International, 2009, 15, 209-214.	1.8	13
22	Particle size versus grain size relation in the sprayformed Al-18Si composites. Metals and Materials International, 2009, 15, 609-613.	1.8	4
23	Role of free volume in strain softening of as-cast and annealed bulk metallic glass. Journal of Materials Research, 2009, 24, 1405-1416.	1.2	53
24	Role of A phase Separating Element on the Plasticity of Amorphous Alloys : Experiment and Atomic Simulation Study. Korean Journal of Materials Research, 2009, 19, 79-84.	0.1	0
25	Understanding the Plasticity of Amorphous Alloys Via the Interpretation of Structural Evolution Inside a Shear Band. Korean Journal of Materials Research, 2009, 19, 276-280.	0.1	1
26	Elastostatically induced structural disordering in amorphous alloys. Acta Materialia, 2008, 56, 5440-5450.	3.8	191
27	Effect of the Atomic Packing Density on the Structural Change Rate of Amorphous Alloys under Elastostatic Stress. Metals and Materials International, 2008, 14, 159-163.	1.8	20
28	Origin of the plasticity in bulk amorphous alloys. Journal of Materials Research, 2007, 22, 3087-3097.	1.2	98
29	Atomic packing density and its influence on the properties of Cu-Zr amorphous alloys. Scripta Materialia, 2007, 57, 805-808.	2.6	165