

Sung-Dae Kim

List of Publications by Year in descending order

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38
papers

795
citations

567281

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38
all docs

38
docs citations

38
times ranked

1337
citing authors

#	ARTICLE	IF	CITATIONS
1	Near room-temperature synthesis of transfer-free graphene films. <i>Nature Communications</i> , 2012, 3, 645.	12.8	205
2	Growth of Wrinkle-Free Graphene on Texture-Controlled Platinum Films and Thermal-Assisted Transfer of Large-Scale Patterned Graphene. <i>ACS Nano</i> , 2015, 9, 679-686.	14.6	52
3	Role of bainitic microstructures with M-A constituent on the toughness of an HSLA steel for seismic resistant structural applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 801, 140390.	5.6	44
4	One-step graphene coating of heteroepitaxial GaN films. <i>Nanotechnology</i> , 2012, 23, 435603.	2.6	33
5	Classification of martensite-austenite constituents according to its internal morphology in high-strength low alloy steel. <i>Materials Letters</i> , 2020, 278, 128422.	2.6	32
6	Monolithic graphene oxide sheets with controllable composition. <i>Nature Communications</i> , 2014, 5, 3383.	12.8	31
7	Reversible wettability control of silicon nanowire surfaces: From superhydrophilicity to superhydrophobicity. <i>Thin Solid Films</i> , 2013, 527, 179-185.	1.8	27
8	GaN light-emitting diodes on glass substrates with enhanced electroluminescence. <i>Journal of Materials Chemistry</i> , 2012, 22, 22942.	6.7	24
9	Effect of annealing on mechanical properties and microstructure evolution of borated stainless steels. <i>Journal of Nuclear Materials</i> , 2019, 515, 206-214.	2.7	24
10	Inverse size-dependence of piezoelectricity in single BaTiO ₃ nanoparticles. <i>Nano Energy</i> , 2019, 58, 78-84.	16.0	23
11	Characterization of microstructural evolution in austenitic Fe-Mn-Al-C lightweight steels with Cr content. <i>Materials Characterization</i> , 2020, 170, 110717.	4.4	23
12	Characterization of zirconium hydrides in Zircaloy-4 cladding with respect to cooling rate. <i>Journal of Nuclear Materials</i> , 2015, 465, 731-736.	2.7	22
13	Effect of Ti addition on hardness change during tempering in reduced activation ferritic/martensitic (RAFM) steels. <i>Journal of Nuclear Materials</i> , 2018, 508, 595-598.	2.7	22
14	V-pits as Barriers to Diffusion of Carriers in InGaN/GaN Quantum Wells. <i>Journal of Electronic Materials</i> , 2015, 44, 4134-4138.	2.2	21
15	Effects of aging heat-treatment on dynamic strain aging behavior in high-Mn lightweight steel. <i>Materials Characterization</i> , 2020, 164, 110316.	4.4	18
16	Hydride formation on deformation twin in zirconium alloy. <i>Journal of Nuclear Materials</i> , 2016, 482, 88-92.	2.7	17
17	Phase transformation mechanism and hardness during ageing of an austenitic Fe-30Mn-10.5Al-1.1C-3Mo lightweight steel. <i>Journal of Alloys and Compounds</i> , 2019, 804, 511-520.	5.5	16
18	Disordered ferroelectricity in the PbTiO ₃ /SrTiO ₃ superlattice thin film. <i>APL Materials</i> , 2017, 5, 066104.	5.1	14

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19	Microstructure evolution and hot deformation behavior of 25Cr-6Mn-3Ni-1Mo-3W-0.1C-0.34N lean duplex stainless steel. <i>Journal of Materials Research and Technology</i> , 2021, 14, 186-194.	5.8	13
20	Effect of the electrode materials on the resistive switching of Ti ₄ O ₇ . <i>Applied Physics Letters</i> , 2012, 101, 053502.	3.3	12
21	Phase analysis of hydride blister in zirconium alloy. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2007-2011.	5.5	12
22	Different aspect of solidification cracking susceptibility and hot ductility behavior of borated stainless steels and the effects of boron content. <i>Materials Characterization</i> , 2020, 164, 110319.	4.4	12
23	Low-temperature formation of epitaxial graphene on 6H-SiC induced by continuous electron beam irradiation. <i>Applied Physics Letters</i> , 2012, 101, 092105.	3.3	11
24	Pitting Corrosion Resistance and Repassivation Behavior of C-Bearing Duplex Stainless Steel. <i>Metals</i> , 2019, 9, 930.	2.3	11
25	Effects of carbon substitution for nitrogen on the pitting corrosion resistance of type UNS S32205 duplex stainless steel. <i>Corrosion Science</i> , 2020, 164, 108308.	6.6	11
26	Enhancement of the resistance to localized corrosion of type 304 borated stainless steels through hot rolling. <i>Corrosion Science</i> , 2021, 192, 109798.	6.6	11
27	Effect of concentrations of Ta and Ti on microstructure and mechanical properties of 9Cr-1W reduced activation ferritic/martensitic steel. <i>Fusion Engineering and Design</i> , 2020, 151, 111364.	1.9	10
28	Pitting Corrosion and Passive Behavior of Type AISI 304-based Borated Stainless Steels in a Boric Acid Solution. <i>Journal of the Electrochemical Society</i> , 2020, 167, 101506.	2.9	10
29	A new type of gadolinium-rich precipitate in alloy steels. <i>Journal of Nuclear Materials</i> , 2020, 542, 152462.	2.7	7
30	Ti-bearing lightweight steel with large high temperature ductility via thermally stable multi-phase microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 808, 140954.	5.6	7
31	Improvement of the Corrosion Resistance by Addition of Ni in Lean Duplex Stainless Steels. <i>Metals</i> , 2020, 10, 891.	2.3	5
32	The effects of surface modification on the electrical properties of p-n junction silicon nanowires grown by an aqueous electroless etching method. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	4
33	Dynamic strain aging in Fe-Mn-Al-C lightweight steel. <i>Philosophical Magazine Letters</i> , 2020, 100, 355-364.	1.2	4
34	Effect of combined addition of N and C on high-temperature deformation behavior of UNS S32101 type lean duplex stainless steels. <i>Materials Today Communications</i> , 2021, 29, 102749.	1.9	4
35	Enhancement of Corrosion Properties of Fe-18Cr-9Mn-5.5Ni-0.3(C + N) Austenitic Stainless Steels by Carbon Alloying. <i>Metals</i> , 2021, 11, 1124.	2.3	2
36	Optimization of Process Conditions for Ultralightweight Steel with More Than 13%wt% of Al and 5%wt% of Cr. <i>Steel Research International</i> , 2023, 94, .	1.8	1

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37	Fabrication of Er ³⁺ /Pr ³⁺ Co-doped Soda-lime Glass Thin Films Using RF Magnetron Sputtering Method and Optical Property Characterization. Materials Research Society Symposia Proceedings, 2005, 866, 143.	0.1	0
38	Fabrication of Er ³⁺ /Pr ³⁺ Co-doped soda-lime glass thin films using RF magnetron sputtering method and optical property characterization. Journal of Electroceramics, 2006, 17, 1097-1101.	2.0	0