

# Sung-Dae Kim

## List of Publications by Year in descending order

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38  
papers

795  
citations

567281

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526287

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38  
docs citations

38  
times ranked

1337  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of Process Conditions for Ultralightweight Steel with More Than 13wt% of Al and 5wt% of Cr. Steel Research International, 2023, 94, .	1.8	1
2	Role of bainitic microstructures with M-A constituent on the toughness of an HSLA steel for seismic resistant structural applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 801, 140390.	5.6	44
3	Ti-bearing lightweight steel with large high temperature ductility via thermally stable multi-phase microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 808, 140954.	5.6	7
4	Enhancement of Corrosion Properties of Fe-18Cr-9Mn-5.5Ni-0.3(C + N) Austenitic Stainless Steels by Carbon Alloying. Metals, 2021, 11, 1124.	2.3	2
5	Microstructure evolution and hot deformation behavior of 25Cr-6Mn-3Ni-1Mo-3W-0.1C-0.34N lean duplex stainless steel. Journal of Materials Research and Technology, 2021, 14, 186-194.	5.8	13
6	Enhancement of the resistance to localized corrosion of type 304 borated stainless steels through hot rolling. Corrosion Science, 2021, 192, 109798.	6.6	11
7	Effect of combined addition of N and C on high-temperature deformation behavior of UNS S32101 type lean duplex stainless steels. Materials Today Communications, 2021, 29, 102749.	1.9	4
8	Effects of carbon substitution for nitrogen on the pitting corrosion resistance of type UNS S32205 duplex stainless steel. Corrosion Science, 2020, 164, 108308.	6.6	11
9	Effect of concentrations of Ta and Ti on microstructure and mechanical properties of 9Cr-1W reduced activation ferritic/martensitic steel. Fusion Engineering and Design, 2020, 151, 111364.	1.9	10
10	Pitting Corrosion and Passive Behavior of Type AISI 304-based Borated Stainless Steels in a Boric Acid Solution. Journal of the Electrochemical Society, 2020, 167, 101506.	2.9	10
11	Improvement of the Corrosion Resistance by Addition of Ni in Lean Duplex Stainless Steels. Metals, 2020, 10, 891.	2.3	5
12	Classification of martensite-austenite constituents according to its internal morphology in high-strength low alloy steel. Materials Letters, 2020, 278, 128422.	2.6	32
13	Characterization of microstructural evolution in austenitic Fe-Mn-Al-C lightweight steels with Cr content. Materials Characterization, 2020, 170, 110717.	4.4	23
14	A new type of gadolinium-rich precipitate in alloy steels. Journal of Nuclear Materials, 2020, 542, 152462.	2.7	7
15	Dynamic strain aging in Fe-Mn-Al-C lightweight steel. Philosophical Magazine Letters, 2020, 100, 355-364.	1.2	4
16	Different aspect of solidification cracking susceptibility and hot ductility behavior of borated stainless steels and the effects of boron content. Materials Characterization, 2020, 164, 110319.	4.4	12
17	Effects of aging heat-treatment on dynamic strain aging behavior in high-Mn lightweight steel. Materials Characterization, 2020, 164, 110316.	4.4	18
18	Phase transformation mechanism and hardness during ageing of an austenitic Fe-30Mn-10.5Al-1.1C-3Mo lightweight steel. Journal of Alloys and Compounds, 2019, 804, 511-520.	5.5	16

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19	Pitting Corrosion Resistance and Repassivation Behavior of C-Bearing Duplex Stainless Steel. <i>Metals</i> , 2019, 9, 930.	2.3	11
20	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
21	Inverse size-dependence of piezoelectricity in single BaTiO <sub>3</sub> nanoparticles. <i>Nano Energy</i> , 2019, 58, 78-84.	16.0	23
22	Phase analysis of hydride blister in zirconium alloy. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2007-2011.	5.5	12
23	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
24	Disordered ferroelectricity in the PbTiO <sub>3</sub> /SrTiO <sub>3</sub> superlattice thin film. <i>APL Materials</i> , 2017, 5, 066104.	5.1	14
25	Hydride formation on deformation twin in zirconium alloy. <i>Journal of Nuclear Materials</i> , 2016, 482, 88-92.	2.7	17
26	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
27	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
28	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
29	Monolithic graphene oxide sheets with controllable composition. <i>Nature Communications</i> , 2014, 5, 3383.	12.8	31
30	Reversible wettability control of silicon nanowire surfaces: From superhydrophilicity to superhydrophobicity. <i>Thin Solid Films</i> , 2013, 527, 179-185.	1.8	27
31	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
32	Effect of the electrode materials on the resistive switching of Ti <sub>4</sub> O <sub>7</sub> . <i>Applied Physics Letters</i> , 2012, 101, 053502.	3.3	12
33	GaN light-emitting diodes on glass substrates with enhanced electroluminescence. <i>Journal of Materials Chemistry</i> , 2012, 22, 22942.	6.7	24
34	One-step graphene coating of heteroepitaxial GaN films. <i>Nanotechnology</i> , 2012, 23, 435603.	2.6	33
35	Near room-temperature synthesis of transfer-free graphene films. <i>Nature Communications</i> , 2012, 3, 645.	12.8	205
36	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

#	ARTICLE	IF	CITATIONS
37	Fabrication of Er <sup>3+</sup> /Pr <sup>3+</sup> 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
38	Fabrication of Er <sup>3+</sup> /Pr <sup>3+</sup> 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