

Suresh K

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

744
citations

567144

15
h-index

552653

26
g-index

57
all docs

57
docs citations

57
times ranked

624
citing authors

#	ARTICLE	IF	CITATIONS
1	Hot working behavior and processing map of a $\hat{3}$ -TiAl alloy synthesized by powder metallurgy. <i>Materials & Design</i> , 2011, 32, 4874-4881.	5.1	97
2	Materials modeling and simulation of isothermal forging of rolled AZ31B magnesium alloy: Anisotropy of flow. <i>Materials & Design</i> , 2011, 32, 2545-2553.	5.1	59
3	Hot deformation behavior of Mg $\hat{2}$ Sn $\hat{2}$ Ca alloy in as-cast condition and after homogenization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 552, 444-450.	2.6	48
4	Characterization of gas tunnel type plasma sprayed TiN reinforced Fe-based metallic glass coatings. <i>Journal of Alloys and Compounds</i> , 2013, 551, 168-175.	2.8	41
5	Hierarchical $\hat{1}$ -MnO ₂ wrapped MWCNTs sensor for low level detection of p-nitrophenol in water. <i>Ceramics International</i> , 2019, 45, 23097-23103.	2.3	37
6	Microstructure and mechanical properties of as-cast Mg $\hat{2}$ Sn $\hat{2}$ Ca alloys and effect of alloying elements. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 3604-3610.	1.7	36
7	Study of hot forging behavior of as-cast Mg $\hat{3}$ Al $\hat{1}$ Zn $\hat{2}$ Ca alloy towards optimization of its hot workability. <i>Materials & Design</i> , 2014, 57, 697-704.	5.1	34
8	Synthesis of nanophase alumina, and spheroidization of alumina particles, and phase transition studies through DC thermal plasma processing. <i>Vacuum</i> , 2008, 82, 814-820.	1.6	31
9	Wear behavior of gas tunnel type plasma sprayed Zr-based metallic glass composite coatings. <i>Applied Surface Science</i> , 2012, 258, 8460-8468.	3.1	30
10	Enhanced electrochemical detection of dopamine by graphene oxide/tungsten trioxide nanocomposite. <i>Materials Science in Semiconductor Processing</i> , 2021, 127, 105696.	1.9	27
11	Effect of calcium addition on the hot working behavior of as-cast AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 588, 272-279.	2.6	25
12	Sliding wear behavior of gas tunnel type plasma sprayed Ni-based metallic glass composite coatings. <i>Vacuum</i> , 2013, 88, 114-117.	1.6	21
13	Review on Hot Working Behavior and Strength of Calcium \hat{C} ontaining Magnesium Alloys. <i>Advanced Engineering Materials</i> , 2018, 20, 1701102.	1.6	18
14	Electrochemical prospects and potential of hausmannite $\langle \text{Mn} \text{O}_4 \rangle$ nanoparticles synthesized through microplasma discharge for supercapacitor applications. <i>International Journal of Energy Research</i> , 2021, 45, 7038-7056.	2.2	18
15	Relative Potential of Different Plasma Forming Gases in Degradation of Rhodamine B Dye by Microplasma Treatment and Evaluation of Reuse Prospectus for Treated Water as Liquid Fertilizer. <i>Plasma Chemistry and Plasma Processing</i> , 2020, 40, 1267-1290.	1.1	17
16	Compressive strength and hot deformation mechanisms in as-cast Mg-4Al-2Ba-2Ca (ABaX422) alloy. <i>Philosophical Magazine</i> , 2013, 93, 4364-4377.	0.7	16
17	Hot working mechanisms in DMD-processed versus cast AZ31 $\hat{1}$ wt% Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 644, 184-193.	2.6	15
18	Preparation, characterization and comparative electrochemical studies of Mg _x Mn _{2-x} O ₄ (x=0, 0.5); Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.3	15

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19	Process and kinetics of dye degradation using microplasma and its feasibility in textile effluent detoxification. <i>Journal of Water Process Engineering</i> , 2020, 37, 101519.	2.6	15
20	Anisotropy of flow during isothermal forging of rolled AZ31B magnesium alloy rolled plate in three orthogonal directions: Correlation with processing maps. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 558, 30-38.	2.6	14
21	Processing Map of AZ31-1Ca-1.5 vol.% Nano-Alumina Composite for Hot Working. <i>Materials and Manufacturing Processes</i> , 2015, 30, 1161-1167.	2.7	13
22	Synthesis of mullite from sillimanite dissociation through transferred arc plasma torch. <i>International Journal of Mineral Processing</i> , 2011, 99, 54-60.	2.6	12
23	Synthesis and characterization of iron aluminide nanoparticles by DC thermal plasma jet. <i>Vacuum</i> , 2008, 82, 482-490.	1.6	9
24	Effect of Minor Additions of Al and Si on the Mechanical Properties of Cast Mg-3Sn-2Ca Alloys in Low Temperature Range. <i>Materials Science Forum</i> , 2010, 654-656, 635-638.	0.3	9
25	Hot Deformation Behavior and Processing Map of Mg-3Sn-2Ca-0.4Al-0.4Zn Alloy. <i>Metals</i> , 2018, 8, 216.	1.0	9
26	High Temperature Strength and Hot Working Technology for As-Cast Mg-1Zn-1Ca (ZX11) Alloy. <i>Metals</i> , 2017, 7, 405.	1.0	8
27	Hot forging of Mg-4Al-2Ba-2Ca (ABaX422) alloy and validation of processing map. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 1495-1503.	1.7	8
28	Synthesis of Mullite by Means of Transferred and Nontransferred Arc Plasma Melting. <i>Materials and Manufacturing Processes</i> , 2010, 25, 909-914.	2.7	6
29	Mechanism of Dynamic Recrystallization and Evolution of Texture in the Hot Working Domains of the Processing Map for Mg-4Al-2Ba-2Ca Alloy. <i>Metals</i> , 2017, 7, 539.	1.0	6
30	Enhancement of Strength and Hot Workability of AZX312 Magnesium Alloy by Disintegrated Melt Deposition (DMD) Processing in Contrast to Permanent Mold Casting. <i>Metals</i> , 2018, 8, 437.	1.0	6
31	A Study on the Hot Deformation Behavior of Cast Mg-4Sn-2Ca (TX42) Alloy. <i>Jom</i> , 2014, 66, 322-328.	0.9	5
32	Forging of cast Mg-3Sn-2Ca-0.4Al-0.4Si magnesium alloy using processing map. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 2699-2705.	0.7	5
33	Thermomechanical Processing of AZ31-3Ca Alloy Prepared by Disintegrated Melt Deposition (DMD). <i>Crystals</i> , 2020, 10, 647.	1.0	4
34	Proximate and Contrastive Study of Malachite Green Dye Degradation Using Microplasma Discharge With Postliminary Phytotoxicity Analysis. <i>IEEE Transactions on Plasma Science</i> , 2021, 49, 597-603.	0.6	4
35	Study on the Effect of Base Pressure on Magnetron Sputtering Discharge Plasma by Optical Emission Spectroscopy. <i>Plasma Science and Technology</i> , 2010, 12, 35-40.	0.7	3
36	Investigation of hot workability behavior of as-cast Mg-5Sn-2Ca (TX52) magnesium alloy through processing map. <i>Production and Manufacturing Research</i> , 2014, 2, 241-252.	0.9	3

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37	Effect of Calcium on the Hot Working Behavior of AZ31-1.5 vol.% Nano-Alumina Composite Prepared by Disintegrated Melt Deposition (DMD) Processing. <i>Metals</i> , 2018, 8, 699.	1.0	3
38	Connected Process Design for Hot Working of a Creep-Resistant Mg ϵ 4Al ϵ 2Ba ϵ 2Ca Alloy (ABaX422). <i>Metals</i> , 2018, 8, 463.	1.0	3
39	Effects of plasma parameters and collection region on synthesis of iron and nickel aluminide composite particles during thermal plasma processing. <i>Journal of Physics: Conference Series</i> , 2010, 208, 012118.	0.3	2
40	Anisotropy of Flow during Forging of Rolled AZ31B Plate in Transverse Direction. <i>Materials Science Forum</i> , 2011, 690, 57-60.	0.3	2
41	Microstructure and Properties of Magnesium Alloy Mg-1Zn-1Ca (ZX11). , 2015, , 419-423.		2
42	Development and comparison of processing maps of Mg-3Sn-1Ca alloy from data obtained in tension versus compression. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 297, 012014.	0.3	2
43	Feasible production of hydrogen from methanol reforming through single stage DC microplasma reactor. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050108.	1.0	2
44	Performance study of wear resistance and solid lubricant surface coatings on textile machinery components. <i>Composite Interfaces</i> , 2012, 19, 239-249.	1.3	1
45	Hot Forging of Cast Magnesium Alloy TX31 Using Semi-Closed Die and its Finite Element Simulation. <i>Materials Science Forum</i> , 0, 783-786, 449-454.	0.3	1
46	A Comparative Study on the Microstructure, Mechanical Properties, and Hot Deformation of Magnesium Alloys Containing Zinc, Calcium and Yttrium. <i>Minerals, Metals and Materials Series</i> , 2017, , 449-461.	0.3	1
47	Deformation Mechanisms and Formability Window for As-Cast Mg-6Al-2Ca-1Sn-0.3Sr Alloy (MRI 230D). <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 1440-1449.	1.2	1
48	Effect of operating parameters on the formation of nickel aluminate spinel through transferred ARC plasma torch. , 2012, , .		0
49	High Temperature Deformation Behavior and Processing Maps of AZ31 Alloy Deformed in Tension versus Compression. <i>Key Engineering Materials</i> , 2019, 794, 305-314.	0.4	0
50	Forging of Mg ϵ 3Sn ϵ 2Ca ϵ 0.4Al Alloy Assisted by Its Processing Map and Validation Through Analytical Modeling. <i>Minerals, Metals and Materials Series</i> , 2019, , 313-318.	0.3	0
51	Degradation of Methylene Blue Using Microplasma Discharge ϵ A Relative Study with Photodegradation. <i>Frontiers in Advanced Materials Research</i> , 0, , 26-35.	0.2	0
52	Textural Changes in Hot Compression of Disintegrated Melt Deposition (DMD) ϵ Processed AZ31-1Ca-1.5 vol. % Nano-Alumina Composite. <i>Materials Performance and Characterization</i> , 2019, 8, 766-781.	0.2	0