

Ao Huang

List of Publications by Year in descending order

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71
papers

1,441
citations

279487

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74
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citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption mechanism of oxide inclusions by microporous magnesia aggregates in tundish. <i>Ceramics International</i> , 2022, 48, 427-435.	2.3	10
2	Comparison study on effect of nano-sized Al ₂ O ₃ addition on the corrosion resistance of microporous magnesia aggregates against tundish slag. <i>Ceramics International</i> , 2022, 48, 5139-5144.	2.3	6
3	Design, fabrication and properties of lightweight wear lining refractories: A review. <i>Journal of the European Ceramic Society</i> , 2022, 42, 744-763.	2.8	38
4	Corrosion resistance and anti-creep reaction mechanism of Al ₂ O ₃ -based refractory ceramic under weak static magnetic field. <i>Journal of the American Ceramic Society</i> , 2022, 105, 2869-2877.	1.9	8
5	Thickness monitoring and discontinuous degradation mechanism of wear lining refractories for refining ladle. <i>Journal of Iron and Steel Research International</i> , 2022, 29, 1110-1118.	1.4	10
6	Effect of carbon black on corrosion resistance of Al ₂ O ₃ -SiC-C castables to SiO ₂ -MgO slag. <i>Ceramics International</i> , 2022, , .	2.3	4
7	Pore evolution of microporous magnesia aggregates with the introduction of nano-sized MgO. <i>Ceramics International</i> , 2022, 48, 18513-18521.	2.3	8
8	Synthesis, characterization, visualization, and growth mechanism of macro-sized tubular MgO crystals formed in situ from refractory magnesia with aluminum. <i>Ceramics International</i> , 2022, 48, 23800-23807.	2.3	3
9	Effect of magnesia-calcium hexaaluminate refractories on the quality of low-carbon alloy steel. <i>Ceramics International</i> , 2022, 48, 31181-31190.	2.3	5
10	Numerical Simulation on Refractory Wear and Inclusion Formation in Continuous Casting Tundish. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 1344-1356.	1.0	20
11	Characterisation and properties of low-conductivity microporous magnesia based aggregates with in-situ intergranular spinel phases. <i>Ceramics International</i> , 2021, 47, 11063-11071.	2.3	25
12	Corrosion Behavior of Lightweight MgO in High Basicity Tundish Slag. <i>Steel Research International</i> , 2021, 92, 2100010.	1.0	13
13	Visual measurement and characterisation of quasi-volcanic corrosion at alumina ceramic-oxides melt-air interface. <i>Journal of the European Ceramic Society</i> , 2021, 41, 400-410.	2.8	10
14	A thermodynamic assessment of precipitation, growth, and control of MnS inclusion in U75V heavy rail steel. <i>High Temperature Materials and Processes</i> , 2021, 40, 178-192.	0.6	12
15	Corrosion modeling of magnesia aggregates in contact with CaO-MgO-SiO ₂ slags. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2128-2136.	1.9	31
16	Fabrication of lightweight alumina with nanoscale intracrystalline pores. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2262-2271.	1.9	24
17	Fabrication and analysis of lightweight magnesia based aggregates containing nano-sized intracrystalline pores. <i>Materials and Design</i> , 2020, 186, 108326.	3.3	30
18	Corrosion mechanism of Al ₂ O ₃ -SiC-C refractory by SiO ₂ -MgO-based slag. <i>Ceramics International</i> , 2020, 46, 28262-28267.	2.3	25

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19	Modified phenolic resin with aluminium and rectorite: Structure, characterization, and performance. <i>Polymer Composites</i> , 2020, 41, 4431-4441.	2.3	4
20	Novel phenomenon of quasi-volcanic corrosion on the alumina refractory-slag-air interface. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6639-6649.	1.9	13
21	Formation Mechanism of In Situ Intergranular CaZrO ₃ Phases in Sintered Magnesia Refractories. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5328-5338.	1.1	13
22	Enhancement of the densification and thermal properties of Ca ₂ Mg ₂ Al ₂₈ O ₄₆ ceramic by MnO addition. <i>Ceramics International</i> , 2020, 46, 18734-18741.	2.3	4
23	Computational Modeling and Prediction on Viscosity of Slags by Big Data Mining. <i>Minerals (Basel)</i> , 2020, 10, 1078-1087.	0.8	15
24	Corrosion Mechanisms of Different Refractory Aggregates in Contact with SiO ₂ -MgO-Based Slag. <i>InterCeram: International Ceramic Review</i> , 2020, 69, 22-29.	0.2	2
25	Slag corrosion-resistance mechanism of lightweight magnesia-based refractories under a static magnetic field. <i>Corrosion Science</i> , 2020, 167, 108517.	3.0	46
26	Fabrication and properties of in situ intergranular CaZrO ₃ modified microporous magnesia aggregates. <i>Ceramics International</i> , 2020, 46, 16956-16965.	2.3	28
27	Improved bonding properties of rectorite clay slurry after wet/dry grinding. <i>Applied Clay Science</i> , 2019, 183, 105318.	2.6	4
28	Enhanced corrosion resistance through the introduction of fine pores: Role of nano-sized intracrystalline pores. <i>Corrosion Science</i> , 2019, 161, 108182.	3.0	32
29	Role of liquid phase amounts in the pore evolution of lightweight bauxite: Experimental and thermal simulation studies. <i>Ceramics International</i> , 2019, 45, 6216-6222.	2.3	8
30	Computational Simulation and Prediction on Electrical Conductivity of Oxide-Based Melts by Big Data Mining. <i>Materials</i> , 2019, 12, 1059.	1.3	7
31	Towards chrome-free lining for plasma gasifiers using the CA6-SiC castable based on high-temperature water vapor corrosion. <i>Ceramics International</i> , 2019, 45, 12429-12435.	2.3	12
32	Mechanical performance and oxidation resistance of SiC castables with lamellar Ti ₃ SiC ₂ coatings on SiC aggregates prepared by SPS. <i>Journal of Alloys and Compounds</i> , 2019, 791, 461-468.	2.8	10
33	Corrosion of alumina-magnesia castable by high manganese steel with respect to steel cleanliness. <i>Ceramics International</i> , 2019, 45, 9884-9890.	2.3	15
34	Effect of Ti combined with Si and C on mechanical performance and oxidation resistance of SiC castables for plasma gasifier. <i>Ceramics International</i> , 2019, 45, 4147-4151.	2.3	10
35	Corrosion mechanism of lightweight microporous alumina-based refractory by molten steel. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3705-3714.	1.9	21
36	Incorporating Zr to achieve self-protecting and enhancement of silica sol bonded SiC castables at active oxidation condition. <i>Ceramics International</i> , 2018, 44, 6089-6095.	2.3	9

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37	Effect of lightweight refractories on the cleanness of bearing steels. <i>Ceramics International</i> , 2018, 44, 12965-12972.	2.3	12
38	Correlations among processing parameters and porosity of a lightweight alumina. <i>Ceramics International</i> , 2018, 44, 14076-14081.	2.3	45
39	Chemical interactions between a calcium aluminate glaze and molten stainless steel containing alumina inclusions. <i>Ceramics International</i> , 2018, 44, 1099-1103.	2.3	8
40	Towards prediction of local corrosion on alumina refractories driven by Marangoni convection. <i>Ceramics International</i> , 2018, 44, 1675-1680.	2.3	20
41	Slag corrosion mechanism of lightweight Al ₂ O ₃ -MgO castable in different atmospheric conditions. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2096-2106.	1.9	24
42	Incorporating Zr combined Si and C to achieve self-repairing ability and enhancement of silica sol bonded SiC castables. <i>Journal of Alloys and Compounds</i> , 2018, 732, 396-405.	2.8	13
43	The Interfacial Behavior of Alumina-Magnesia Castables and Molten Slag under an Alternating Magnetic Field. <i>InterCeram: International Ceramic Review</i> , 2018, 67, 36-43.	0.2	4
44	The Interfacial Behavior of Alumina-Magnesia Castables and Molten Slag under an Alternating Magnetic Field. <i>InterCeram: International Ceramic Review</i> , 2018, 67, 58-65.	0.2	2
45	Fabrication of lightweight alumina containing fine closed pores by controlling the relationship between phase stress and superplasticity: Experimental and mathematical studies. <i>Ceramics International</i> , 2018, 44, 20034-20042.	2.3	13
46	Dynamic interaction of refractory and molten steel: Effect of alumina-magnesia castables on alloy steel cleanness. <i>Ceramics International</i> , 2018, 44, 22146-22153.	2.3	24
47	Properties and microstructures of lightweight alumina containing different types of nano-alumina. <i>Ceramics International</i> , 2018, 44, 17885-17894.	2.3	48
48	Influence of pore distribution on the equivalent thermal conductivity of low porosity ceramic closed-cell foams. <i>Ceramics International</i> , 2018, 44, 19319-19329.	2.3	26
49	Dynamic interaction of refractory and molten steel: Corrosion mechanism of alumina-magnesia castables. <i>Ceramics International</i> , 2018, 44, 14617-14624.	2.3	45
50	Towards chrome-free of high-temperature solid waste gasifier through in-situ SiC whisker enhanced silica sol bonded SiC castable. <i>Ceramics International</i> , 2017, 43, 3330-3338.	2.3	22
51	Enhancement of bonding network for silica sol bonded SiC castables by reactive micropowder. <i>Ceramics International</i> , 2017, 43, 8850-8857.	2.3	13
52	Isolation or corrosion of microporous alumina in contact with various CaO-Al ₂ O ₃ -SiO ₂ slags. <i>Corrosion Science</i> , 2017, 120, 211-218.	3.0	55
53	Effects of aggregate microstructure on slag resistance of lightweight Al ₂ O ₃ -MgO castable. <i>Ceramics International</i> , 2017, 43, 16495-16501.	2.3	31
54	Corrosion Mechanism of Foamed Slag on the Lightweight Corundum-Spinel Castable. <i>InterCeram: International Ceramic Review</i> , 2016, 65, 226-231.	0.2	2

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55	Improvement of Durability of Purging Plugs Using MgO Micropowder for Refining Ladles. International Journal of Applied Ceramic Technology, 2016, 13, 1104-1111.	1.1	5
56	An approach for matrix densification based on particle packing and its effect on lightweight Al ₂ O ₃ -MgO castables. Ceramics International, 2016, 42, 18560-18567.	2.3	14
57	Towards slag-resistant, anti-clogging and chrome-free castable for gas purging. Ceramics International, 2016, 42, 18674-18680.	2.3	17
58	Fabrication and characterization of lightweight microporous alumina with guaranteed slag resistance. Ceramics International, 2016, 42, 8724-8728.	2.3	27
59	Effect of nano-alumina sol on the sintering properties and microstructure of microporous corundum. Materials and Design, 2016, 89, 21-26.	3.3	40
60	Effects of particle distribution of matrix on microstructure and slag resistance of lightweight Al ₂ O ₃ -MgO castables. Ceramics International, 2016, 42, 1964-1972.	2.3	23
61	Toward CFD Modeling of Slag Entrainment in Gas Stirred Ladles. Steel Research International, 2015, 86, 1447-1454.	1.0	29
62	Study on a Lime-Fluorite Slag Melting Agent for Ladle Slag Buildup. InterCeram: International Ceramic Review, 2015, 64, 116-118.	0.2	0
63	Slag Resistance Mechanism of Lightweight Microporous Corundum Aggregate. Journal of the American Ceramic Society, 2015, 98, 1658-1663.	1.9	68
64	Effect of MgO micropowder on sintering properties and microstructures of microporous corundum aggregates. Ceramics International, 2015, 41, 5857-5862.	2.3	27
65	Dynamic slag/refractory interaction of lightweight Al ₂ O ₃ -MgO castable for refining ladle. Ceramics International, 2015, 41, 8149-8154.	2.3	36
66	Corrosion of Al ₂ O ₃ -Cr ₂ O ₃ refractory lining for high-temperature solid waste incinerator. Ceramics International, 2015, 41, 14748-14753.	2.3	50
67	Possible improvements of alumina-magnesia castable by lightweight microporous aggregates. Ceramics International, 2015, 41, 1263-1270.	2.3	86
68	Effects of MgO micropowder on microstructure and resistance coefficient of Al ₂ O ₃ -MgO castable matrix. Ceramics International, 2014, 40, 7023-7028.	2.3	33
69	Mathematical Modeling on Erosion Characteristics of Refining Ladle Lining with Application of Purging Plug. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 744-749.	1.0	30
70	Oxidation Resistance and Mechanical Enhancement of Ferro-Silicon Nitride on Silica Sol Bonded SiC Castable. Key Engineering Materials, 0, 768, 286-290.	0.4	0
71	Mathematical Simulation and Physical Modeling of Self-Source Magnetization by Liquid Electrolyte Flow. Materials Science Forum, 0, 982, 165-172.	0.3	0