

Yong

List of Publications by Year in descending order

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56
papers

430
citations

840776

11
h-index

940533

16
g-index

56
all docs

56
docs citations

56
times ranked

201
citing authors

#	ARTICLE	IF	CITATIONS
1	Creep behaviour of an Al-Si-Al ₂ O ₃ composite based on phase evolution at 1300°C. Ceramics International, 2022, 48, 2337-2344.	4.8	6
2	In situ synthesis of 15R-sialon from Al ₅ Si ₃ N ₄ -Al ₂ O ₃ composite at 1500°C via liquid phase sintering. Journal of the American Ceramic Society, 2022, 105, 2268-2276.	3.8	1
3	A novel dense Al ₂ O ₃ -Ti ₂ O ₃ slag synthesized while ferro-titanium alloy making. Journal of Asian Ceramic Societies, 2022, 10, 150-157.	2.3	0
4	Novel process for synthesizing fused mullite from titanium-rich medium/low grade or waste bauxite. Ceramics International, 2022, 48, 8228-8234.	4.8	7
5	Performance of silica bricks with ferrosilicon nitride as the mineralizer. Ceramics International, 2022, 48, 26791-26799.	4.8	1
6	Phase evolution of a novel silicon-alumina-fused mullite-containing Ti ₂ O ₃ refractory at 1300°C in N ₂ . Ceramics International, 2022, 48, 31686-31694.	4.8	2
7	Cost-effective manufacture and synthesis mechanism of ferrosilicon nitride porous ceramic with interlocking structure. Ceramics International, 2021, 47, 5265-5272.	4.8	5
8	Effect of TiO ₂ on the formation of novel non-oxide phases in Al-Mg-Al ₂ O ₃ composite at high temperatures in flowing N ₂ . Materials Chemistry and Physics, 2021, 258, 123963.	4.0	1
9	Thermodynamic analysis of Al ₂ O ₃ and phase and micro-structure evolution of the resin bonded Al ₂ O ₃ -ZrO ₂ refractories under air embedded in coke breeze. Journal of Alloys and Compounds, 2021, 855, 157216.	5.5	2
10	Effect of Si ₃ N ₄ mesophase on the formation of Al ₂ O ₃ -AlN _s in resin-bonded Al ₂ O ₃ composites. Ceramics International, 2021, 47, 25491-25496.	4.8	3
11	In situ formation mechanism of spinel-like Al ₅ O ₆ N and plate-like Al ₇ O ₃ N ₅ in the two-step sintered Al ₂ O ₃ composites. Materials Chemistry and Physics, 2021, 271, 124951.	4.0	3
12	Phase composition, microstructure, and properties of Al ₄ O ₄ C-(Al ₂ O ₃) ₁ -(AlN) ₁ -Zr ₂ Al ₃ C ₄ -Al ₂ O ₃ refractories prepared at high temperatures in nitrogen. Ceramics International, 2021, 47, 30298-30309.	4.8	2
13	Formation mechanism of Ti(C, N) solid solution in Al-brown fused alumina refractory at 1973 K in flowing N ₂ . Ceramics International, 2020, 46, 2654-2660.	4.8	10
14	Formation mechanism and controllable preparation of Ti(C,N) in Al-TiO ₂ -Al ₂ O ₃ composite at 1673 K in flowing N ₂ . Materials Chemistry and Physics, 2020, 239, 122128.	4.0	4
15	Controllable synthesis of Al ₂ O ₃ -AlN solid solution by two-step sintering in resin-bonded Al-Al ₂ O ₃ composites. Materials Chemistry and Physics, 2020, 241, 122410.	4.0	7
16	Reaction mechanisms between slag and Ti(C,N)-MgAl ₂ O ₄ -Al ₂ O ₃ refractories at 1600 °C. Ceramics International, 2020, 46, 27774-27782.	4.8	7
17	Synthesis of (Al ₂ O ₃) _x (AlN) _{1-x} whiskers via Al ₂ O ₃ (g) transient phase in Al-Al ₂ O ₃ composite at 1000-1300°C in flowing N ₂ . Journal of Asian Ceramic Societies, 2020, 8, 624-633.	2.3	3
18	Formation mechanism of whiskers in Al-MgAl ₂ O ₄ -MgO refractories at 1400°C under N ₂ atmosphere. Ceramics International, 2020, 46, 20724-20731.	4.8	7

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19	Formation mechanism of β -AlON and β -SiC reinforcements in a phenolic resin-bonded Al-Si-Al ₂ O ₃ composite at 1700°C in flowing N ₂ . Journal of Materials Science, 2020, 55, 5772-5781.	3.7	4
20	Investigation of the oxidation mechanism of an Al-Si-Al ₂ O ₃ composite at 1100°C and 1550°C. Ceramics International, 2020, 46, 13813-13820.	4.8	5
21	Study on the synthesis and formation mechanism of Al ₂ O ₃ -AlN solid solution in Al-Si-Al ₂ O ₃ composite material in air at 1500°C. Solid State Sciences, 2020, 100, 106112.	3.2	6
22	Oxidation mechanism of Al-TiO ₂ -MgO-Al ₂ O ₃ composites after the treatment at 1500°C in N ₂ -blowing. Materials Chemistry and Physics, 2020, 248, 122937.	4.0	1
23	Formation of dense non-oxide layer in Al-TiO ₂ -MgO-Al ₂ O ₃ refractories at 1873 K in flowing N ₂ . Ceramics International, 2019, 45, 19297-19306.	4.8	5
24	Reaction bonding alumina with Al-SiC solid solution by nitridation of matrix containing Al-Si powders. Journal of Materials Science, 2019, 54, 14654-14665.	3.7	10
25	Novelty phase synthesis mechanism and morphology in resin-bonded Al-Al ₂ O ₃ -TiO ₂ composites at high temperatures under flowing N ₂ . International Journal of Minerals, Metallurgy and Materials, 2019, 26, 1177-1185.	4.9	1
26	Study on formation mechanism and morphology evolution of Iron-exsolution mullite. Materials Letters, 2019, 246, 9-12.	2.6	4
27	Wear mechanism of a novel Al-Si-Mg-Al ₂ O ₄ -Al ₂ O ₃ composite used in the low vessel of an RH secondary refining furnace. Ceramics International, 2019, 45, 11275-11280.	4.8	6
28	Formation of (Al ₂ O ₃) _{1-x} (AlN) _x solid solution starting from Al-Si-Al ₂ O ₃ powder matrix at 1300°C in flowing nitrogen. Journal of the American Ceramic Society, 2019, 102, 6349-6356.	3.8	11
29	Kinetic study on the anisotropic grain growth of elongated iron-containing mullite. Ceramics International, 2019, 45, 12934-12941.	4.8	9
30	Preparation and ladle slag resistance mechanism of MgAlON bonded Al ₂ O ₃ -MgAlON-Zr ₂ Al ₃ C ₄ -(Al ₂ CO) ₁ -(AlN) refractories. Ceramics International, 2019, 45, 346-353.	4.8	10
31	Combined effect of Fe-Si alloys and carbon on Si ₃ N ₄ stability at elevated temperatures. Ceramics International, 2019, 45, 3290-3296.	4.8	6
32	Study on phase evolution of the resin bonded Al-Al ₂ O ₃ composites in N ₂ -flowing at high temperature. Journal of Alloys and Compounds, 2019, 784, 1145-1152.	5.5	17
33	Preparation, growth mechanism and slag resistance behavior of ternary Ca ₂ Mg ₂ Al ₂₈ O ₄₆ (C ₂ M ₂ A) ₁ TjETQq _{1,2,1} 0.784314 rgBT		
34	Novel iron-rich mullite solid solution synthesis using fused-silica and β -Al ₂ O ₃ powders. Ceramics International, 2019, 45, 4680-4684.	4.8	12
35	Phase evolution mechanism of non-oxide bonded Al-Si-Al ₂ O ₃ -MgO-Zr ₂ O ₃ composites at 1873 K in flowing nitrogen. Journal of the American Ceramic Society, 2018, 101, 2162-2169.	3.8	9
36	Formation mechanism of elongated β -Si ₃ N ₄ crystals in Fe-Si ₃ N ₄ composite via flash combustion. Ceramics International, 2018, 44, 9395-9400.	4.8	13

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37	Silicon nitridation mechanism in reaction-bonded Si_3N_4 -SiC and Si_3N_4 -bonded ferrosilicon nitride. Journal of the American Ceramic Society, 2018, 101, 4350-4356.	3.8	17
38	Investigation on a postmortem resin-bonded Al-Si-Al ₂ O ₃ sliding gate with functional gradient feature. Ceramics International, 2018, 44, 6384-6389.	4.8	13
39	In situ synthesis mechanism of 15R-SiAlON reinforced Al ₂ O ₃ refractories by Fe-Si liquid phase sintering. Journal of the American Ceramic Society, 2018, 101, 1870-1879.	3.8	26
40	Theoretical analysis and synthesis of Al ₄ O ₄ C and Al ₂ CO phase in the resin bonded Al-Al ₂ O ₃ refractory in N ₂ -flowing. Ceramics International, 2018, 44, 1493-1499.	4.8	27
41	Formation mechanism of dense anti-oxidation layer in Al-Si-MgO composites sintered in air condition. Ceramics International, 2018, 44, 3987-3992.	4.8	5
42	Formation mechanism of SiAlON in alumina-ferro-silicon-nitride composite under nitrogen atmosphere at high temperatures. Solid State Sciences, 2018, 86, 19-23.	3.2	4
43	Role of the vapour phases in the formation mechanism of 15R-SiAlON in Fe _x Si _y -Si ₃ N ₄ -Al ₂ O ₃ composites at 1800 °C. Ceramics International, 2018, 44, 23239-23247.	4.8	7
44	Enhanced properties of MgO-Al ₂ O ₃ composite materials with Al powder addition under 1300 °C creep test and its mechanism analysis. Solid State Sciences, 2017, 66, 38-43.	3.2	1
45	Mechanism of active and passive oxidation of reaction-bonded Si ₃ N ₄ -SiC refractories. Ceramics International, 2017, 43, 10720-10725.	4.8	19
46	Effect of Al addition on creep resistance of MgO-Al ₂ O ₃ composite for sliding plate at 1400 °C. Ceramics International, 2017, 43, 11610-11615.	4.8	9
47	In-situ synthesis of AlON reinforcing phases in resin bonded Al ₂ O ₃ composite materials. Journal of Alloys and Compounds, 2017, 711, 1-7.	5.5	18
48	Reaction mechanism for in-situ β -SiAlON formation in Fe ₃ Si-Si ₃ N ₄ -Al ₂ O ₃ composites. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 324-331.	4.9	9
49	In situ reaction mechanism of MgAlON in Al-Al ₂ O ₃ -MgO composites at 1700 °C under flowing N ₂ . International Journal of Minerals, Metallurgy and Materials, 2017, 24, 1061-1066.	4.9	11
50	Performance investigation of resin bonded ferro-silicon nitride-corundum refractories after creep at 1300 °C. Ceramics International, 2017, 43, 16424-16429.	4.8	3
51	Controllable preparation and synthetic mechanism of mullite from the bauxite with Fe-rich oxide content. Materials Chemistry and Physics, 2017, 202, 245-250.	4.0	14
52	In-situ synthesis and reaction mechanism of MgAlON in Al ₂ O ₃ -MgO composites produced in flowing nitrogen. Ceramics International, 2017, 43, 14791-14797.	4.8	8
53	One step sintering of homogenized bauxite raw material and kinetic study. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 1231-1238.	4.9	4
54	Fracture behavior and microstructure analysis of Al ₂ O ₃ -MgO-CaO castables for steel-ladle purging plugs. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 1333-1339.	4.9	3

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55	New synthetic route to Al ₄ O ₄ C reinforced Al ₂ O ₃ composite materials. Solid State Sciences, 2015, 46, 33-36.	3.2	24
56	Properties of both Chinese silica brick and silica raw material. Ironmaking and Steelmaking, 0, , 1-11.	2.1	0