

Yong

List of Publications by Year in descending order

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56
papers

430
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840776

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56
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56
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Ceramics International</i> , 2018, 44, 1493-1499.	4.8	27
2	In situ synthesis mechanism of 15R- α -SiAlON reinforced Al ₂ O ₃ refractories by Fe-Si liquid phase sintering. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1870-1879.	3.8	26
3	New synthetic route to Al ₄ O ₄ C reinforced α -Al ₂ O ₃ composite materials. <i>Solid State Sciences</i> , 2015, 46, 33-36.	3.2	24
4	Mechanism of active and passive oxidation of reaction-bonded Si ₃ N ₄ -SiC refractories. <i>Ceramics International</i> , 2017, 43, 10720-10725.	4.8	19
5	In-situ synthesis of ALON reinforcing phases in resin bonded Al ₂ O ₃ composite materials. <i>Journal of Alloys and Compounds</i> , 2017, 711, 1-7.	5.5	18
6	Silicon nitridation mechanism in reaction-bonded Si ₃ N ₄ -SiC and Si ₃ N ₄ -bonded ferrosilicon nitride. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4350-4356.	3.8	17
7	Study on phase evolution of the resin bonded Al-Al ₂ O ₃ composites in N ₂ -flowing at high temperature. <i>Journal of Alloys and Compounds</i> , 2019, 784, 1145-1152.	5.5	17
8	Controllable preparation and synthetic mechanism of mullite from the bauxite with Fe-rich oxide content. <i>Materials Chemistry and Physics</i> , 2017, 202, 245-250.	4.0	14
9	Formation mechanism of elongated β -Si ₃ N ₄ crystals in Fe-Si ₃ N ₄ composite via flash combustion. <i>Ceramics International</i> , 2018, 44, 9395-9400.	4.8	13
10	Investigation on a postmortem resin-bonded Al-Si-Al ₂ O ₃ sliding gate with functional gradient feature. <i>Ceramics International</i> , 2018, 44, 6384-6389.	4.8	13
11	Novel iron-rich mullite solid solution synthesis using fused-silica and α -Al ₂ O ₃ powders. <i>Ceramics International</i> , 2019, 45, 4680-4684.	4.8	12
12	In situ reaction mechanism of MgAlON in α -Al ₂ O ₃ -MgO composites at 1700 ^\circ C under flowing N ₂ . <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 1061-1066.	4.9	11
13	Formation of (Al ₂ O ₃) _{1-x} (AlN) _x solid solution starting from α -Al ₂ O ₃ powder matrix at 1300 ^\circ C in flowing nitrogen. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6349-6356.	3.8	11
14	Reaction bonding alumina with AlN-SiC solid solution by nitridation of matrix containing Al-Si powders. <i>Journal of Materials Science</i> , 2019, 54, 14654-14665.	3.7	10
15	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. <i>Ceramics International</i> , 2019, 45, 346-353.	4.8	10
16	Formation mechanism of Ti(C, N) solid solution in Al-brown fused alumina refractory at 1973 K in flowing N ₂ . <i>Ceramics International</i> , 2020, 46, 2654-2660.	4.8	10
17	Effect of Al addition on creep resistance of MgO-Al ₂ O ₃ composite for sliding plate at 1400 ^\circ C. <i>Ceramics International</i> , 2017, 43, 11610-11615.	4.8	9
18	Reaction mechanism for in-situ β -SiAlON formation in Fe ₃ Si-Si ₃ N ₄ -Al ₂ O ₃ composites. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 324-331.	4.9	9

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19	Phase evolution mechanism of non-oxide bonded Al ₂ O ₃ -MgO-ZrO ₂ composites at 1873 K in flowing nitrogen. Journal of the American Ceramic Society, 2018, 101, 2162-2169.	3.8	9
20	Kinetic study on the anisotropic grain growth of elongated iron-containing mullite. Ceramics International, 2019, 45, 12934-12941.	4.8	9
21	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
22	Preparation, growth mechanism and slag resistance behavior of ternary Ca ₂ Mg ₂ Al ₂₈ O ₄₆ (C ₂ M ₂ A) ₂₁ ETQq _{0,0} rgBT / Overlock 1	2.1	8
23	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
24	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
25	Reaction mechanisms between slag and Ti(C,N)-MgAl ₂ O ₃ -Al ₂ O ₃ refractories at 1600 °C. Ceramics International, 2020, 46, 27774-27782.	4.8	7
26	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
27	Novel process for synthesizing fused mullite from titanium-rich medium/low grade or waste bauxite. Ceramics International, 2022, 48, 8228-8234.	4.8	7
28	Wear mechanism of a novel Al-Si-MgAl 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
29	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
30	Study on the synthesis and formation mechanism of Al ₂ O ₃ -AlN solid solution in Al-Al ₂ O ₃ composite material in air at 1500 °C. Solid State Sciences, 2020, 100, 106112.	3.2	6
31	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
32	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
33	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
34	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
35	Cost-effective manufacture and synthesis mechanism of ferrosilicon nitride porous ceramic with interlocking structure. Ceramics International, 2021, 47, 5265-5272.	4.8	5
36	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

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37	Formation mechanism of Sialon in alumina-ferro-silicon-nitride composite under nitrogen atmosphere at high temperatures. <i>Solid State Sciences</i> , 2018, 86, 19-23.	3.2	4
38	Study on formation mechanism and morphology evolution of Iron-exsolution mullite. <i>Materials Letters</i> , 2019, 246, 9-12.	2.6	4
39	Formation mechanism and controllable preparation of Ti(C,N) in Al ₂ O ₃ -TiO ₂ -Al ₂ O ₃ composite at 1673 K in flowing N ₂ . <i>Materials Chemistry and Physics</i> , 2020, 239, 122128.	4.0	4
40	Formation mechanism of β -AlON and β -SiC reinforcements in a phenolic resin-bonded Al ₂ O ₃ -Si ₃ N ₄ -Al ₂ O ₃ composite at 1700 °C in flowing N ₂ . <i>Journal of Materials Science</i> , 2020, 55, 5772-5781.	3.7	4
41	Fracture behavior and microstructure analysis of Al ₂ O ₃ -MgO-CaO castables for steel-ladle purging plugs. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016, 23, 1333-1339.	4.9	3
42	Performance investigation of resin bonded ferro-silicon nitride-corundum refractories after creep at 1300 °C. <i>Ceramics International</i> , 2017, 43, 16424-16429.	4.8	3
43	Synthesis of (Al ₂ O ₃) _x (AlN) _{1-x} whiskers via Al ₂ O ₃ (g) transient phase in Al ₂ O ₃ -Al ₂ O ₃ composite at 1000-1300 °C in flowing N ₂ . <i>Journal of Asian Ceramic Societies</i> , 2020, 8, 624-633.	2.3	3
44	Effect of Si ₃ N ₄ mesophase on the formation of Al ₂ O ₃ -AlN _{ss} in resin-bonded Al ₂ O ₃ composites. <i>Ceramics International</i> , 2021, 47, 25491-25496.	4.8	3
45	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. <i>Materials Chemistry and Physics</i> , 2021, 271, 124951.	4.0	3
46	Thermodynamic analysis of Al ₂ O ₃ (g) and phase and micro-structure evolution of the resin bonded Al ₂ O ₃ -ZrO ₂ refractories under air embedded in coke breeze. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157216.	5.5	2
47	Phase composition, microstructure, and properties of Al ₄ O ₄ C-(Al ₂ O ₃) ₁ -(AlN)-Zr ₂ Al ₃ C ₄ -Al ₂ O ₃ refractories prepared at high temperatures in nitrogen. <i>Ceramics International</i> , 2021, 47, 30298-30309.	4.8	2
48	Phase evolution of a novel silicon-alumina-fused mullite-containing Ti ₂ O ₃ refractory at 1300 °C in N ₂ . <i>Ceramics International</i> , 2022, 48, 31686-31694.	4.8	2
49	Enhanced properties of MgO-Al ₂ O ₃ composite materials with Al powder addition under 1300 °C creep test and its mechanism analysis. <i>Solid State Sciences</i> , 2017, 66, 38-43.	3.2	1
50	Novelty phase synthesis mechanism and morphology in resin-bonded Al ₂ O ₃ -TiO ₂ composites at high temperatures under flowing N ₂ . <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 1177-1185.	4.9	1
51	Oxidation mechanism of Al ₂ O ₃ -MgO-Al ₂ O ₃ composites after the treatment at 1500 °C in N ₂ -blowing. <i>Materials Chemistry and Physics</i> , 2020, 248, 122937.	4.0	1
52	Effect of TiO ₂ on the formation of novel non-oxide phases in Al ₂ O ₃ -MgO-Al ₂ O ₃ composite at high temperatures in flowing N ₂ . <i>Materials Chemistry and Physics</i> , 2021, 258, 123963.	4.0	1
53	In situ synthesis of β -Sialon from Al ₂ O ₃ -Si ₃ N ₄ -Al ₂ O ₃ composite at 1500 °C via liquid phase sintering. <i>Journal of the American Ceramic Society</i> , 2022, 105, 2268-2276.	3.8	1
54	Performance of silica bricks with ferrosilicon nitride as the mineralizer. <i>Ceramics International</i> , 2022, 48, 26791-26799.	4.8	1

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55	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
56	Properties of both Chinese silica brick and silica raw material. Ironmaking and Steelmaking, 0, , 1-11.	2.1	0