

Pei-Gang He

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9426035/publications.pdf>

Version: 2024-02-01

106
papers

3,429
citations

147566

31
h-index

161609

54
g-index

107
all docs

107
docs citations

107
times ranked

2212
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomistic insight into the structure and diffusion properties of pollucite glass-ceramics. <i>Ceramics International</i> , 2022, 48, 11134-11144.	2.3	4
2	Study on oxidation resistance and oxidative damage mechanism of SiBCN-Ta ₄ HfC ₅ composite ceramics. <i>Corrosion Science</i> , 2022, 197, 110049.	3.0	11
3	Improved mechanical properties and directional heat transfer performance of h-BN matrix multilayer composites with alternately stacked untextured/textured layers. <i>Ceramics International</i> , 2022, 48, 13563-13571.	2.3	3
4	Texture and anisotropy of hot-pressed h-BN matrix composite ceramics with in situ formed YAG. <i>Journal of Advanced Ceramics</i> , 2022, 11, 532-544.	8.9	17
5	Ultrafine SnO ₂ nanoparticles on delaminated MXene nanosheets as an anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 907, 164428.	2.8	25
6	3D Printing of Damage-tolerant Martian Regolith Simulant-based Geopolymer Composites. <i>Additive Manufacturing</i> , 2022, 58, 103025.	1.7	6
7	Improvement of grain size and crystallization degree of LPSed h-BN composite ceramics by amorphization/nanocrystallization of raw h-BN powders. <i>Journal of Alloys and Compounds</i> , 2021, 852, 156765.	2.8	7
8	Microstructural evolution of h-BN matrix composite ceramics with La-Al-Si-O glass phase during hot-pressed sintering. <i>Journal of Advanced Ceramics</i> , 2021, 10, 493-501.	8.9	22
9	Effect of Re ₂ O ₃ -MgO additives on the microstructure evolution and properties of β -Si ₃ N ₄ ceramics. <i>Ceramics International</i> , 2021, 47, 22073-22079.	2.3	11
10	Hydrothermal transformation of geopolymers to bulk zeolite structures for efficient hazardous elements adsorption. <i>Science of the Total Environment</i> , 2021, 767, 144973.	3.9	29
11	In-situ reduced graphene oxide/geopolymer composites for efficient Cs ⁺ immobilization. <i>Open Ceramics</i> , 2021, 6, 100095.	1.0	6
12	Formation of SiC whiskers/leucite-based ceramic composites from low temperature hardening geopolymer. <i>Ceramics International</i> , 2021, 47, 17930-17938.	2.3	10
13	Effects of kinds of alkali-activated ions on geopolymerization process of geopolymer cement pastes. <i>Construction and Building Materials</i> , 2021, 293, 123536.	3.2	26
14	Direct ink writing of geopolymer with high spatial resolution and tunable mechanical properties. <i>Additive Manufacturing</i> , 2021, 46, 102202.	1.7	8
15	Preparation and characterization of Cf/Pollucite composites through geopolymer precursors. <i>Ceramics International</i> , 2021, 47, 31713-31723.	2.3	4
16	3D-printing of architected short carbon fiber-geopolymer composite. <i>Composites Part B: Engineering</i> , 2021, 226, 109348.	5.9	57
17	First-principles study of the anisotropic thermal expansion and thermal transport properties in h-BN. <i>Science China Materials</i> , 2021, 64, 953-963.	3.5	14
18	Effects of Si/Al Ratios on the Bulk-Type Zeolite Formation Using Synthetic Metakaolin-Based Geopolymer with Designated Composition. <i>Crystals</i> , 2021, 11, 1310.	1.0	6

#	ARTICLE	IF	CITATIONS
19	Dense amorphous Si ₂ BCl-4N monoliths resistant to high-temperature oxidation for hypersonic vehicle. <i>Corrosion Science</i> , 2020, 163, 108231.	3.0	8
20	Mechanical properties and in situ fracture behavior of SiO ₂ f/phosphate geopolymer composites. <i>Rare Metals</i> , 2020, 39, 562-569.	3.6	9
21	Hydrothermal synthesis of pollucite from metakaolin-based geopolymer for hazardous wastes storage. <i>Journal of Cleaner Production</i> , 2020, 248, 119240.	4.6	42
22	Immobilization behavior of Sr in geopolymer and its ceramic product. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1372-1384.	1.9	24
23	Interplay between storage temperature, medium and leaching kinetics of hazardous wastes in Metakaolin-based geopolymer. <i>Journal of Hazardous Materials</i> , 2020, 384, 121377.	6.5	51
24	Insight into hexacelsian-to-celsian transformation in hot-pressed BN/BAS composites. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1773-1778.	2.8	12
25	Grain-orientation dependence of the anisotropic thermal shock performance of hexagonal boron nitride ceramics. <i>Scripta Materialia</i> , 2020, 178, 402-407.	2.6	9
26	B ₂ O ₃ -assisted low-temperature crystallization of pollucite structures and their potential applications in Cs ⁺ immobilization. <i>Journal of Nuclear Materials</i> , 2020, 540, 152314.	1.3	21
27	Geopolymer and Geopolymer Matrix Composites. <i>Springer Series in Materials Science</i> , 2020, , .	0.4	2
28	Thermal Evolution of Geopolymer in the Process of High-Temperature Treatment. , 2020, , .		0
29	Geopolymer-Encapsulated Cesium Lead Bromide Perovskite Nanocrystals for Potential Display Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 11695-11700.	2.4	6
30	Microstructural evolution and mechanical properties of in situ nano Ta ₄ HfC ₅ reinforced SiBCN composite ceramics. <i>Journal of Advanced Ceramics</i> , 2020, 9, 739-748.	8.9	28
31	Synthesis and mechanical properties of lightweight hybrid geopolymer foams reinforced with carbon nanotubes. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 2335-2345.	1.1	12
32	Effects of Zr and chopped C fiber on microstructure and mechanical properties of SiBCN ceramics. <i>Science China Technological Sciences</i> , 2020, 63, 1520-1530.	2.0	7
33	Microstructure and room/elevated-temperature mechanical properties of hot-pressed h-BN composite ceramics with La ₂ O ₃ -Al ₂ O ₃ -SiO ₂ addition. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2260-2267.	2.8	5
34	Microstructure evolution and grain growth mechanisms of h-BN ceramics during hot-pressing. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2268-2278.	2.8	21
35	Finite element analysis of effect of grain orientation on the thermal conduction of h-BN ceramics. <i>Ceramics International</i> , 2020, 46, 11631-11637.	2.3	8
36	From bulk to porous structures: Tailoring monoclinic SrAl ₂ Si ₂ O ₈ ceramic by geopolymer precursor technique. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4957-4968.	1.9	10

#	ARTICLE	IF	CITATIONS
37	Short SiC Fiber and Hybrid SiC/Carbon Fiber Reinforced Geopolymer Matrix Composites. Springer Series in Materials Science, 2020, , 243-270.	0.4	0
38	Geopolymerization Mechanism of Geopolymers. Springer Series in Materials Science, 2020, , 35-80.	0.4	1
39	Geopolymers and Their Matrix Composites: A State-of-the-Art Review. Springer Series in Materials Science, 2020, , 7-34.	0.4	1
40	Particles-Reinforced Geopolymer Matrix Composites. Springer Series in Materials Science, 2020, , 131-177.	0.4	0
41	Continuous Fibers-Reinforced Geopolymer Matrix Composites. Springer Series in Materials Science, 2020, , 271-307.	0.4	0
42	Graphene-Reinforced Geopolymer Matrix Composites. Springer Series in Materials Science, 2020, , 81-129.	0.4	0
43	Short Carbon Fiber (Csf)-Reinforced Geopolymer Matrix Composites. Springer Series in Materials Science, 2020, , 179-241.	0.4	0
44	Preparation and anisotropic properties of textured structural ceramics: A review. Journal of Advanced Ceramics, 2019, 8, 289-332.	8.9	107
45	Effect of ball milling treatment on the microstructures and properties of Cr ₂ AlC powders and hot pressed bulk ceramics. Journal of the European Ceramic Society, 2019, 39, 5140-5148.	2.8	9
46	Crystallization behavior and mechanical properties of high open porosity dolomite hollow microspheres filled hybrid geopolymer foams. Cement and Concrete Composites, 2019, 104, 103376.	4.6	34
47	Safe trapping of cesium into doping-enhanced pollucite structure by geopolymer precursor technique. Journal of Hazardous Materials, 2019, 367, 577-588.	6.5	43
48	In-situ formation of bulk and porous h-AlN/SiC-based ceramics from geopolymer technique. Ceramics International, 2019, 45, 24727-24733.	2.3	15
49	Anisotropic properties of textured h-BN matrix ceramics prepared using 3Y ₂ O ₃ -5Al ₂ O ₃ (-4MgO) as sintering additives. Journal of the European Ceramic Society, 2019, 39, 1788-1795.	2.8	14
50	A green and low-cost hollow gangue microsphere/geopolymer adsorbent for the effective removal of heavy metals from wastewaters. Journal of Environmental Management, 2019, 246, 174-183.	3.8	66
51	Green synthesis of high porosity waste gangue microsphere/geopolymer composite foams via hydrogen peroxide modification. Journal of Cleaner Production, 2019, 227, 483-494.	4.6	57
52	Monoclinic-celsian ceramics formation: Through thermal treatment of ion-exchanged 3D printing geopolymer precursor. Journal of the European Ceramic Society, 2019, 39, 563-573.	2.8	34
53	Effects of fiber contents on the mechanical and microwave absorbent properties of carbon fiber felt reinforced geopolymer composites. Ceramics International, 2018, 44, 10726-10734.	2.3	32
54	Thermal evolution of lithium ion substituted cesium-based geopolymer under high temperature treatment, Part I: Effects of holding temperature. Ceramics International, 2018, 44, 10047-10054.	2.3	15

#	ARTICLE	IF	CITATIONS
55	Synthesis of novel low-cost porous gangue microsphere/geopolymer composites and their adsorption properties for dyes. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 1602-1614.	1.1	29
56	Influence of sol-gel derived ZrB ₂ additions on microstructure and mechanical properties of SiBCN composites. <i>Ceramics International</i> , 2017, 43, 4372-4378.	2.3	25
57	In situ processing of MWCNTs/leucite composites through geopolymer precursor. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2219-2226.	2.8	41
58	Interlaminar fracture properties of surface treated Ti-CFRP hybrid composites under long-term hydrothermal conditions. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 96, 9-17.	3.8	33
59	Effects of high-temperature heat treatment on the microstructure and mechanical performance of hybrid Cf-SiCf-(Al ₂ O ₃ p) reinforced geopolymer composites. <i>Composites Part B: Engineering</i> , 2017, 114, 289-298.	5.9	24
60	Effects of graphene oxide on the geopolymerization mechanism determined by quenching the reaction at intermediate states. <i>RSC Advances</i> , 2017, 7, 13498-13508.	1.7	19
61	3D printing strong and conductive geo-polymer nanocomposite structures modified by graphene oxide. <i>Carbon</i> , 2017, 117, 421-426.	5.4	154
62	Celsian formation from barium-exchanged geopolymer precursor: Thermal evolution. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4179-4185.	2.8	25
63	Novel geopolymer based composites reinforced with stainless steel mesh and chromium powder. <i>Construction and Building Materials</i> , 2017, 150, 89-94.	3.2	10
64	Effects of Na ⁺ substitution Cs ⁺ on the microstructure and thermal expansion behavior of ceramic derived from geopolymer. <i>Journal of the American Ceramic Society</i> , 2017, 100, 4412-4424.	1.9	8
65	Seed-mediated growth of ultra-thin triangular magnetite nanoplates. <i>Chemical Communications</i> , 2017, 53, 11052-11055.	2.2	17
66	Preparation and mechanical performance of Cf-SiCf-(Al ₂ O ₃ p) reinforced geopolymer composites. <i>MATEC Web of Conferences</i> , 2017, 97, 01044.	0.1	1
67	Effects of graphite on the mechanical and microwave absorption properties of geopolymer based composites. <i>Ceramics International</i> , 2017, 43, 2325-2332.	2.3	33
68	Preparation and in-situ high-temperature mechanical properties of Cf-SiCf reinforced geopolymer composites. <i>Ceramics International</i> , 2017, 43, 549-555.	2.3	16
69	The Effect of Si/Al on Mechanical Properties and Fracture Behavior of Stainless Steel Mesh/Cr _p Reinforced Geopolymer Composites. <i>MATEC Web of Conferences</i> , 2017, 97, 01011.	0.1	4
70	In-situ preparation of fully stabilized graphene/cubic-leucite composite through graphene oxide/geopolymer. <i>Materials and Design</i> , 2016, 101, 301-308.	3.3	19
71	Preparation and mechanical performance of ductile Csf/Al ₂ O ₃ â€“BN compositesâ€”Part 2: Effects of fiber contents and ablation properties. <i>Ceramics International</i> , 2016, 42, 11063-11069.	2.3	6
72	Effect of curing temperature and SiO ₂ /K ₂ O molar ratio on the performance of metakaolin-based geopolymers. <i>Ceramics International</i> , 2016, 42, 16184-16190.	2.3	78

#	ARTICLE	IF	CITATIONS
73	Effects of treatment temperature on the reduction of GO under alkaline solution during the preparation of graphene/geopolymer composites. <i>Ceramics International</i> , 2016, 42, 18181-18188.	2.3	23
74	Effects of Li Substitution on the Microstructure and Thermal Expansion Behavior of Pollucite Derived from Geopolymer. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3784-3791.	1.9	9
75	Effects of Si/Al ratio on the structure and properties of metakaolin based geopolymer. <i>Ceramics International</i> , 2016, 42, 14416-14422.	2.3	240
76	Crystallization kinetics and microstructure evolution of reduced graphene oxide/geopolymer composites. <i>Journal of the European Ceramic Society</i> , 2016, 36, 2601-2609.	2.8	24
77	Effects of nano-silica contents on the properties of epoxy nanocomposites and Ti-epoxy assembles. <i>Composites Science and Technology</i> , 2016, 129, 46-52.	3.8	15
78	Preparation and mechanical performance of ductile C sf /Al 2 O 3 -BN composites, Part 1: Effects of fiber length and sintering temperature. <i>Ceramics International</i> , 2016, 42, 9821-9829.	2.3	10
79	SiC fiber reinforced geopolymer composites, part 2: Continuous SiC fiber. <i>Ceramics International</i> , 2016, 42, 12239-12245.	2.3	33
80	Influence of hot-press sintering parameters on microstructures and mechanical properties of h-BN ceramics. <i>Journal of Alloys and Compounds</i> , 2016, 684, 474-480.	2.8	31
81	<i>In Situ</i> Processing of Graphene/Leucite Nanocomposite Through Graphene Oxide/Geopolymer. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1164-1173.	1.9	27
82	Effect of fiber content on the microstructure and mechanical properties of carbon fiber felt reinforced geopolymer composites. <i>Ceramics International</i> , 2016, 42, 7837-7843.	2.3	63
83	SiC fiber reinforced geopolymer composites, part 1: Short SiC fiber. <i>Ceramics International</i> , 2016, 42, 5345-5352.	2.3	43
84	Inhibiting crystallization mechanism of h -BN on β -cordierite in BN-MAS composites. <i>Journal of the European Ceramic Society</i> , 2016, 36, 905-909.	2.8	22
85	Effect of reduced graphene oxide content on the microstructure and mechanical properties of graphene-geopolymer nanocomposites. <i>Ceramics International</i> , 2016, 42, 752-758.	2.3	57
86	In situ fabrication and characterization of graphene/geopolymer composites. <i>Ceramics International</i> , 2015, 41, 11242-11250.	2.3	65
87	Energy Absorption Mechanisms of Modified Double-Aluminum Layers Under Low-Velocity Impact. <i>International Journal of Applied Mechanics</i> , 2015, 07, 1550086.	1.3	17
88	Surface modifications of Ti alloy with tunable hierarchical structures and chemistry for improved metal-polymer interface used in deepwater composite riser. <i>Applied Surface Science</i> , 2015, 328, 614-622.	3.1	66
89	Preparation of fully stabilized cubic-leucite composite through heat-treating Cs-substituted K-geopolymer composite at high temperatures. <i>Composites Science and Technology</i> , 2015, 107, 44-53.	3.8	21
90	Effects of primer and annealing treatments on the shear strength between anodized Ti6Al4V and epoxy. <i>International Journal of Adhesion and Adhesives</i> , 2015, 57, 49-56.	1.4	29

#	ARTICLE	IF	CITATIONS
91	Progress on the formation of ceramics and ceramic-based composites through geopolymer precursors. Chinese Science Bulletin, 2015, 60, 226-235.	0.4	3
92	Anisotropic mechanical properties and fracture mechanisms of textured h-BN composite ceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 607, 38-43.	2.6	63
93	Surface microstructures and epoxy bonded shear strength of Ti6Al4V alloy anodized at various temperatures. Composites Science and Technology, 2013, 82, 15-22.	3.8	67
94	Low-temperature sintered pollucite ceramic from geopolymer precursor using synthetic metakaolin. Journal of Materials Science, 2013, 48, 1812-1818.	1.7	39
95	Interface evolution of the Cf/leucite composites derived from Cf/geopolymer composites. Ceramics International, 2013, 39, 1203-1208.	2.3	12
96	Microstructure and integrity of leucite ceramic derived from potassium-based geopolymer precursor. Journal of the European Ceramic Society, 2013, 33, 689-698.	2.8	64
97	Thermal evolution and crystallization kinetics of potassium-based geopolymer. Ceramics International, 2011, 37, 59-63.	2.3	81
98	Microstructural and mechanical characterization of fly ash cenosphere/metakaolin-based geopolymeric composites. Ceramics International, 2011, 37, 1661-1666.	2.3	88
99	In situ crack growth observation and fracture behavior of short carbon fiber reinforced geopolymer matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2404-2407.	2.6	76
100	Improvement of high-temperature mechanical properties of heat treated Cf/geopolymer composites by Sol-SiO ₂ impregnation. Journal of the European Ceramic Society, 2010, 30, 3053-3061.	2.8	40
101	Effects of high-temperature heat treatment on the mechanical properties of unidirectional carbon fiber reinforced geopolymer composites. Ceramics International, 2010, 36, 1447-1453.	2.3	209
102	Effect of cesium substitution on the thermal evolution and ceramics formation of potassium-based geopolymer. Ceramics International, 2010, 36, 2395-2400.	2.3	71
103	Effects of fibre content on mechanical properties and fracture behaviour of short carbon fibre reinforced geopolymer matrix composites. Bulletin of Materials Science, 2009, 32, 77-81.	0.8	80
104	Thermal-mechanical properties of short carbon fiber reinforced geopolymer matrix composites subjected to thermal load. Central South University, 2009, 16, 881-886.	0.5	43
105	Effects of fiber length on mechanical properties and fracture behavior of short carbon fiber reinforced geopolymer matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 497, 181-185.	2.6	181
106	Preparation and mechanical performance of SiC w /geopolymer composites through direct ink writing. Journal of the American Ceramic Society, 0, , .	1.9	5