

# Lei Ge

## List of Publications by Year in descending order

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112  
papers

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citations

44069

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docs citations

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times ranked

12043  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin Iron-Cobalt Oxide Nanosheets with Abundant Oxygen Vacancies for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2017, 29, 1606793.	21.0	1,144
2	Two-Step Boron and Nitrogen Doping in Graphene for Enhanced Synergistic Catalysis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3110-3116.	13.8	863
3	Synthesis, characterization and evaluation of cation-ordered LnBaCo <sub>2</sub> O <sub>5+</sub> as materials of oxygen permeation membranes and cathodes of SOFCs. <i>Acta Materialia</i> , 2008, 56, 4876-4889.	7.9	461
4	Metal organic framework based mixed matrix membranes: an overview on filler/polymer interfaces. <i>Journal of Materials Chemistry A</i> , 2018, 6, 293-312.	10.3	377
5	Direct evidence of boosted oxygen evolution over perovskite by enhanced lattice oxygen participation. <i>Nature Communications</i> , 2020, 11, 2002.	12.8	366
6	Advances and challenges in electrochemical CO <sub>2</sub> reduction processes: an engineering and design perspective looking beyond new catalyst materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1511-1544.	10.3	305
7	Facile synthesis of nitrogen doped reduced graphene oxide as a superior metal-free catalyst for oxidation. <i>Chemical Communications</i> , 2013, 49, 9914.	4.1	294
8	Gas diffusion electrodes (GDEs) for electrochemical reduction of carbon dioxide, carbon monoxide, and dinitrogen to value-added products: a review. <i>Energy and Environmental Science</i> , 2021, 14, 1959-2008.	30.8	243
9	A Surfactant-Free and Scalable General Strategy for Synthesizing Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13565-13572.	13.8	205
10	Selectivity Control for Electrochemical CO <sub>2</sub> Reduction by Charge Redistribution on the Surface of Copper Alloys. <i>ACS Catalysis</i> , 2019, 9, 9411-9417.	11.2	172
11	Defect-Induced Pt-Co-Se Coordinated Sites with Highly Asymmetrical Electronic Distribution for Boosting Oxygen-Involving Electrocatalysis. <i>Advanced Materials</i> , 2019, 31, e1805581.	21.0	168
12	Tuning oxygen vacancies in two-dimensional iron-cobalt oxide nanosheets through hydrogenation for enhanced oxygen evolution activity. <i>Nano Research</i> , 2018, 11, 3509-3518.	10.4	167
13	Mixed Matrix Membranes with Strengthened MOFs/Polymer Interfacial Interaction and Improved Membrane Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5609-5618.	8.0	163
14	Ionic Liquids as the MOFs/Polymer Interfacial Binder for Efficient Membrane Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32041-32049.	8.0	157
15	High-Performance PEDOT:PSS Flexible Thermoelectric Materials and Their Devices by Triple Post-Treatments. <i>Chemistry of Materials</i> , 2019, 31, 5238-5244.	6.7	153
16	Amphiphobic PVDF composite membranes for anti-fouling direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2016, 505, 61-69.	8.2	141
17	Mixed matrix membranes incorporated with size-reduced Cu-BTC for improved gas separation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6350.	10.3	140
18	High activity electrocatalysts from metal-organic framework-carbon nanotube templates for the oxygen reduction reaction. <i>Carbon</i> , 2015, 82, 417-424.	10.3	140

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19	High performance cobalt-free perovskite cathode for intermediate temperature solid oxide fuel cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 9619.	6.7	133
20	High-Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. <i>Small</i> , 2021, 17, e2101573.	10.0	128
21	Mixed-Matrix Membranes with Metal-Organic Framework-Decorated CNT Fillers for Efficient CO <sub>2</sub> Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14750-14757.	8.0	124
22	Electrochemical Reduction of CO <sub>2</sub> to Ethane through Stabilization of an Ethoxy Intermediate. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19649-19653.	13.8	122
23	Systematic investigation on new SrCo <sub>1-y</sub> NbyO <sub>3</sub> ceramic membranes with high oxygen semi-permeability. <i>Journal of Membrane Science</i> , 2008, 323, 436-443.	8.2	114
24	Novel B-site ordered double perovskite Ba <sub>2</sub> Bi <sub>0.1</sub> Sc <sub>0.2</sub> Co <sub>1.7</sub> O <sub>6</sub> for highly efficient oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2011, 4, 872-875.	30.8	112
25	Properties and performance of A-site deficient (Ba <sub>0.5</sub> Sr <sub>0.5</sub> ) <sub>1-x</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> for oxygen permeating membrane. <i>Journal of Membrane Science</i> , 2007, 306, 318-328.	8.2	111
26	Enhanced gas permeability by fabricating functionalized multi-walled carbon nanotubes and polyethersulfone nanocomposite membrane. <i>Separation and Purification Technology</i> , 2011, 78, 76-82.	7.9	109
27	In situ synthesis of zeolitic imidazolate frameworks/carbon nanotube composites with enhanced CO <sub>2</sub> adsorption. <i>Dalton Transactions</i> , 2014, 43, 7028.	3.3	108
28	Anti-fouling membranes by manipulating surface wettability and their anti-fouling mechanism. <i>Desalination</i> , 2017, 413, 127-135.	8.2	108
29	Porous Polyethersulfone-Supported Zeolitic Imidazolate Framework Membranes for Hydrogen Separation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13264-13270.	3.1	96
30	Halloysite-Nanotube-Supported Ru Nanoparticles for Ammonia Catalytic Decomposition to Produce CO <sub>2</sub> -Free Hydrogen. <i>Energy &amp; Fuels</i> , 2011, 25, 3408-3416.	5.1	88
31	Electrochemical CO <sub>2</sub> reduction in membrane-electrode assemblies. <i>CheM</i> , 2022, 8, 663-692.	11.7	86
32	Investigation of Gas Permeability in Carbon Nanotube (CNT)-Polymer Matrix Membranes via Modifying CNTs with Functional Groups/Metals and Controlling Modification Location. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6661-6670.	3.1	83
33	Amorphous Iron Oxide Decorated 3D Heterostructured Electrode for Highly Efficient Oxygen Reduction. <i>Chemistry of Materials</i> , 2011, 23, 4193-4198.	6.7	80
34	Shape-tuned electrodeposition of bismuth-based nanosheets on flow-through hollow fiber gas diffusion electrode for high-efficiency CO <sub>2</sub> reduction to formate. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119945.	20.2	77
35	New Undisputed Evidence and Strategy for Enhanced Lattice-Oxygen Participation of Perovskite Electrocatalyst through Cation Deficiency Manipulation. <i>Advanced Science</i> , 2022, 9, e2200530.	11.2	75
36	Rational Design of a Water-Storable Hierarchical Architecture Decorated with Amorphous Barium Oxide and Nickel Nanoparticles as a Solid Oxide Fuel Cell Anode with Excellent Sulfur Tolerance. <i>Advanced Science</i> , 2017, 4, 1700337.	11.2	74

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37	Synthesis and characterization of three amino-functionalized metal-organic frameworks based on the 2-aminoterephthalic ligand. Dalton Transactions, 2015, 44, 8190-8197.	3.3	72
38	Evaluation and optimization of $\text{Bi}_{1-x}\text{Sr}_x\text{FeO}_3$ perovskites as cathodes of solid oxide fuel cells. International Journal of Hydrogen Energy, 2011, 36, 3179-3186.	7.1	70
39	Tuning the Product Selectivity of the Cu Hollow Fiber Gas Diffusion Electrode for Efficient $\text{CO}_2$ Reduction to Formate by Controlled Surface Sn Electrodeposition. ACS Applied Materials & Interfaces, 2020, 12, 21670-21681.	8.0	69
40	Propylene/propane selective mixed matrix membranes with grape-branched MOF/CNT filler. Journal of Materials Chemistry A, 2016, 4, 6084-6090.	10.3	65
41	A Surfactant-Free and Scalable General Strategy for Synthesizing Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets for the Oxygen Evolution Reaction. Angewandte Chemie, 2019, 131, 13699-13706.	2.0	64
42	Toward Excellence of Transition Metal-Based Catalysts for $\text{CO}_2$ Electrochemical Reduction: An Overview of Strategies and Rationales. Small Methods, 2020, 4, 2000033.	8.6	60
43	Composite cathodes for protonic ceramic fuel cells: Rationales and materials. Composites Part B: Engineering, 2022, 238, 109881.	12.0	59
44	Highly active nickel-cobalt/nanocarbon thin films as efficient water splitting electrodes. Nanoscale, 2016, 8, 18507-18515.	5.6	56
45	Fine-Tuning the Coordinatively Unsaturated Metal Sites of Metal-Organic Frameworks by Plasma Engraving for Enhanced Electrocatalytic Activity. ACS Applied Materials & Interfaces, 2019, 11, 44300-44307.	8.0	53
46	High-performance metal-organic framework-perovskite hybrid as an important component of the air-electrode for rechargeable Zn-Air battery. Journal of Power Sources, 2020, 468, 228377.	7.8	52
47	Hierarchically structured metal-organic framework/vertically-aligned carbon nanotubes hybrids for $\text{CO}_2$ capture. RSC Advances, 2013, 3, 25360.	3.6	51
48	Surface-etched halloysite nanotubes in mixed matrix membranes for efficient gas separation. Separation and Purification Technology, 2017, 173, 63-71.	7.9	50
49	Deactivation and Regeneration of Oxygen Reduction Reactivity on Double Perovskite $\text{Ba}_{2-x}\text{Bi}_{0.1-x}\text{Sc}_{0.2-x}\text{Co}_{1.7-x}\text{O}_{6+x}$ Cathode for Intermediate-Temperature Solid Oxide Fuel Cells. Chemistry of Materials, 2011, 23, 1618-1624.	6.7	49
50	Pore channel surface modification for enhancing anti-fouling membrane distillation. Applied Surface Science, 2018, 443, 217-226.	6.1	48
51	Oxygen selective membranes based on B-site cation-deficient $(\text{Ba}_{0.5}\text{Sr}_{0.5})(\text{Co}_{0.8}\text{Fe}_{0.2})\text{O}_3$ perovskite with improved operational stability. Journal of Membrane Science, 2008, 318, 182-190.	8.2	47
52	Halloysite Nanotube Supported Ru Nanocatalysts Synthesized by the Inclusion of Preformed Ru Nanoparticles for Preferential Oxidation of CO in $\text{H}_2$ -Rich Atmosphere. Journal of Physical Chemistry C, 2013, 117, 4141-4151.	3.1	46
53	From scheelite $\text{BaMoO}_4$ to perovskite $\text{BaMoO}_3$ : Enhanced electrocatalysis toward the hydrogen evolution in alkaline media. Composites Part B: Engineering, 2020, 198, 108214.	12.0	46
54	The preparation of activated carbon discs from tar pitch and coal powder for adsorption of $\text{CO}_2$ , $\text{CH}_4$ and $\text{N}_2$ . Microporous and Mesoporous Materials, 2017, 238, 19-26.	4.4	45

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55	Calcium Looping for CO <sub>2</sub> Capture at a Constant High Temperature. <i>Energy &amp; Fuels</i> , 2014, 28, 307-318.	5.1	43
56	Bronze alloys with tin surface sites for selective electrochemical reduction of CO <sub>2</sub> . <i>Chemical Communications</i> , 2018, 54, 13965-13968.	4.1	43
57	Interfacial engineering of a polymer-MOF composite by <i>in situ</i> vitrification. <i>Chemical Communications</i> , 2020, 56, 3609-3612.	4.1	43
58	Enabling Process Intensification by 3D Printing of Catalytic Structures. <i>ChemCatChem</i> , 2017, 9, 4132-4138.	3.7	39
59	Facile autocombustion synthesis of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3</sub> (LSCF) perovskite via a modified complexing sol-gel process with NH <sub>4</sub> NO <sub>3</sub> as combustion aid. <i>Journal of Alloys and Compounds</i> , 2008, 450, 338-347.	5.5	38
60	A comparison study of catalytic oxidation and acid oxidation to prepare carbon nanotubes for filling with Ru nanoparticles. <i>Carbon</i> , 2011, 49, 2022-2032.	10.3	38
61	Surface functionalization of graphene oxide by amino acids for <i>Thermomyces lanuginosus</i> lipase adsorption. <i>Journal of Colloid and Interface Science</i> , 2019, 546, 211-220.	9.4	38
62	Orientated growth of copper-based MOF for acetylene storage. <i>Chemical Engineering Journal</i> , 2019, 357, 320-327.	12.7	36
63	Modulated Sn Oxidation States over a Cu <sub>2</sub> O-Derived Substrate for Selective Electrochemical CO <sub>2</sub> Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 22760-22770.	8.0	36
64	Activated carbon derived from bio-waste hemp hurd and retted hemp hurd for CO <sub>2</sub> adsorption. <i>Composites Communications</i> , 2017, 5, 27-30.	6.3	35
65	Stand-alone asymmetric hollow fiber gas-diffusion electrodes with distinguished bronze phases for high-efficiency CO <sub>2</sub> electrochemical reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120538.	20.2	35
66	Vertically-aligned carbon nanotube membranes for hydrogen separation. <i>RSC Advances</i> , 2012, 2, 5329.	3.6	33
67	Electrochemical Reduction of CO <sub>2</sub> to Ethane through Stabilization of an Ethoxy Intermediate. <i>Angewandte Chemie</i> , 2020, 132, 19817-19821.	2.0	33
68	Improved enzymatic activity by oriented immobilization on graphene oxide with tunable surface heterogeneity. <i>Composites Part B: Engineering</i> , 2021, 216, 108788.	12.0	32
69	Anisotropic coal permeability estimation by determining cleat compressibility using mercury intrusion porosimetry and stress-strain measurements. <i>International Journal of Coal Geology</i> , 2019, 205, 75-86.	5.0	31
70	Catalyst-Electrolyte Interactions in Aqueous Reine Solutions for Highly Selective Electrochemical CO <sub>2</sub> Reduction. <i>ChemSusChem</i> , 2020, 13, 304-311.	6.8	29
71	Activation of peroxydisulfate by defect-rich CuO nanoparticles supported on layered MgO for organic pollutants degradation: An electron transfer mechanism. <i>Chemical Engineering Journal</i> , 2022, 431, 134026.	12.7	29
72	Double-site yttria-doped Sr <sub>1-x</sub> Y <sub>x</sub> Co <sub>1-y</sub> Y <sub>y</sub> O <sub>3</sub> perovskite oxides as oxygen semi-permeable membranes. <i>Journal of Alloys and Compounds</i> , 2009, 474, 477-483.	5.5	28

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73	Permeability enhancement of coal by chemical-free fracturing using high-voltage electrohydraulic discharge. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 57, 1-10.	4.4	28
74	Interfacial microenvironment for lipase immobilization: Regulating the heterogeneity of graphene oxide. <i>Chemical Engineering Journal</i> , 2020, 394, 125038.	12.7	28
75	Catalysis based on ferroelectrics: controllable chemical reaction with boosted efficiency. <i>Nanoscale</i> , 2021, 13, 7096-7107.	5.6	27
76	Evaluation of mixed-conducting lanthanum-strontium-cobaltite ceramic membrane for oxygen separation. <i>AIChE Journal</i> , 2009, 55, 2603-2613.	3.6	26
77	Effect of sonication and hydrogen peroxide oxidation of carbon nanotube modifiers on the microstructure of pitch-derived activated carbon foam discs. <i>Carbon</i> , 2017, 124, 142-151.	10.3	24
78	Flexible A-site doping $\text{La}_{0.6-x}\text{M}_x\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_3$ (M=Ca, Ba, Bi; x=0, 0.1, 0.2) as novel cathode material for intermediate-temperature solid oxide fuel cells: A first-principles study and experimental exploration. <i>Journal of Power Sources</i> , 2021, 490, 229564.	7.8	24
79	Characterisation and evaluation of shockwave generation in water conditions for coal fracturing. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 66, 255-264.	4.4	22
80	Co-localization of glucose oxidase and catalase enabled by a self-assembly approach: Matching between molecular dimensions and hierarchical pore sizes. <i>Food Chemistry</i> , 2019, 275, 197-205.	8.2	21
81	Regulating the reaction zone of electrochemical $\text{CO}_2$ reduction on gas-diffusion electrodes by distinctive hydrophilic-hydrophobic catalyst layers. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121362.	20.2	21
82	Effects of preparation methods on the oxygen nonstoichiometry, B-site cation valences and catalytic efficiency of perovskite $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ . <i>Ceramics International</i> , 2009, 35, 3201-3206.	4.8	20
83	Unveiling the effects of dimensionality of tin oxide-derived catalysts on $\text{CO}_2$ reduction by using gas-diffusion electrodes. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 345-352.	3.7	20
84	The preparation, structures, and properties of poly(vinylidene fluoride)/multiwall carbon nanotubes nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012, 125, E592.	2.6	19
85	Effect of rheological properties of mesophase pitch and coal mixtures on pore development in activated carbon discs with high compressive strength. <i>Fuel Processing Technology</i> , 2018, 177, 219-227.	7.2	19
86	Difference in the cooperative interaction between carbon nanotubes and Ru particles loaded on their internal/external surface. <i>RSC Advances</i> , 2013, 3, 12641.	3.6	18
87	Combined Adsorption and Covalent Linking of Paclitaxel on Functionalized Nano-Graphene Oxide for Inhibiting Cancer Cells. <i>ACS Omega</i> , 2018, 3, 2396-2405.	3.5	18
88	Laser-Induced N- and B-Codoped Graphene Nanozymes with Intrinsic Peroxidase-Like Activities for Bactericidal Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2750-2760.	6.7	18
89	Affinity induced immobilization of adenylate cyclase from the crude cell lysate for ATP conversion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 164, 155-164.	5.0	16
90	A nitrogen-doped electrocatalyst from metal-organic framework-carbon nanotube composite. <i>Journal of Materials Research</i> , 2018, 33, 538-545.	2.6	16

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91	Crystal Facet Engineering of Copper-Based Metal-Organic Frameworks with Inorganic Modulators. <i>Crystal Growth and Design</i> , 2021, 21, 926-934.	3.0	16
92	Enhanced hydrogen separation by vertically-aligned carbon nanotube membranes with zeolite imidazolate frameworks as a selective layer. <i>RSC Advances</i> , 2012, 2, 11793.	3.6	15
93	Gas storage potential and electrohydraulic discharge (EHD) stimulation of coal seam interburden from the Surat Basin. <i>International Journal of Coal Geology</i> , 2019, 208, 24-36.	5.0	14
94	Carbon Monoliths by Assembling Carbon Spheres for Gas Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 4957-4969.	3.7	14
95	Low-temperature synthesis of La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\delta</math></sub> perovskite powder via asymmetric sol-gel process and catalytic auto-combustion. <i>Ceramics International</i> , 2009, 35, 2809-2815.	4.8	13
96	Facile auto-combustion synthesis for oxygen separation membrane application. <i>Journal of Membrane Science</i> , 2009, 329, 219-227.	8.2	13
97	Improved adenylate cyclase activity via affinity immobilization onto co-modified GO with bio-inspired adhesive and PEI. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 205, 111888.	5.0	13
98	Silver-Perovskite Hybrid Electrocatalysts for Oxygen Reduction Reaction in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2018, 165, H524-H529.	2.9	12
99	Electron acceptor design for 2D/2D iodine/carbon nitride heterojunction boosting charge transfer and CO <sub>2</sub> photoreduction. <i>Chemical Engineering Journal</i> , 2022, 433, 133594.	12.7	11
100	The controllable synthesis of urchin-shaped hierarchical superstructure MOFs with high catalytic activity and stability. <i>Chemical Communications</i> , 2021, 57, 8758-8761.	4.1	10
101	Efficient organic enrichment from sludge filtrate via a forward osmosis membrane process. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104042.	6.7	9
102	Stabilizing bienzymatic cascade catalysis via immobilization in ZIF-8/GO composites obtained by GO assisted co-growth. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 217, 112585.	5.0	6
103	Effect of oxidation and silane surface treatments of coal powders on relative permeability in packed coal beds. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 69, 102931.	4.4	5
104	Understanding the Effects of Anion Interactions with Ag Electrodes on Electrochemical CO <sub>2</sub> Reduction in Choline Halide Electrolytes. <i>ChemSusChem</i> , 2021, 14, 2601-2611.	6.8	5
105	A phase inversion polymer coating to prevent swelling and spalling of clay fines in coal seam gas wells. <i>International Journal of Coal Science and Technology</i> , 2018, 5, 179-190.	6.0	4
106	Perovskite Materials in Electrocatalysis. <i>Materials Horizons</i> , 2020, , 209-250.	0.6	4
107	Study on the Controllable Scale-Up Growth of Vertically-Aligned Carbon Nanotube Arrays. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 2722-2732.	0.9	3
108	Cracking Behavior and Mechanism of Gibbsite Crystallites during Calcination. <i>Crystal Research and Technology</i> , 2019, 54, 1800201.	1.3	3

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109	Cracking behaviour and mechanism at grain boundary of gibbsite during calcination. <i>Ceramics International</i> , 2020, 46, 12067-12072.	4.8	2
110	Toward controlled geometric structure and surface property heterogeneities of TiO <sub>2</sub> for lipase immobilization. <i>Process Biochemistry</i> , 2021, 110, 118-128.	3.7	2
111	Revealing cracking and breakage behaviours of gibbsite particles. <i>Ceramics International</i> , 2021, 47, 4625-4632.	4.8	1
112	Smart, Porous Polymer Coatings to Bind Clay Minerals in Coal Bed Methane Wells. , 2016, , .		0