

Xuzhong Gong

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4616523/publications.pdf>

Version: 2024-02-01

37
papers

982
citations

516710

16
h-index

434195

31
g-index

38
all docs

38
docs citations

38
times ranked

951
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Supporting Porous Co-Based Films with Phase-Separation Structure for Ultrastable Overall Water Electrolysis at Large Current Density. <i>Advanced Energy Materials</i> , 2018, 8, 1802445.	19.5	114
2	Reactivity of pulverized coals during combustion catalyzed by CeO ₂ and Fe ₂ O ₃ . <i>Combustion and Flame</i> , 2010, 157, 351-356.	5.2	111
3	Hierarchically 3D porous films electrochemically constructed on gas-liquid-solid three-phase interface for energy application. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9488-9513.	10.3	76
4	Variation on anthracite combustion efficiency with CeO ₂ and Fe ₂ O ₃ addition by Differential Thermal Analysis (DTA). <i>Energy</i> , 2010, 35, 506-511.	8.8	74
5	ORR and OER of Co-N codoped carbon-based electrocatalysts enhanced by boundary layer oxygen molecules transfer. <i>Carbon</i> , 2021, 172, 556-568.	10.3	65
6	Comparative Study of CeO ₂ and Doped CeO ₂ with Tailored Oxygen Vacancies for CO Oxidation. <i>ChemPhysChem</i> , 2011, 12, 2763-2770.	2.1	56
7	Impurities Removal from Metallurgical-Grade Silicon by Combined Sn-Si and Al-Si Refining Processes. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2013, 44, 828-836.	2.1	53
8	Millisecond Conversion of Photovoltaic Silicon Waste to Binder-Free High Silicon Content Nanowires Electrodes. <i>Advanced Energy Materials</i> , 2021, 11, 2102103.	19.5	48
9	Relation between Sticking and Metallic Iron Precipitation on the Surface of Fe ₂ O ₃ Particles Reduced by CO in the Fluidized Bed. <i>ISIJ International</i> , 2011, 51, 1403-1409.	1.4	42
10	N-Doped gel-structures for construction of long cycling Si anodes at high current densities for high performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11347-11354.	10.3	29
11	Insight of Iron Whisker Sticking Mechanism from Iron Atom Diffusion and Calculation of Solid Bridge Radius. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 2050-2056.	2.1	25
12	Preparation of CaO-containing carbon pellet from recycling of carbide slag: Effects of temperature and H ₃ PO ₄ . <i>Waste Management</i> , 2019, 84, 64-73.	7.4	22
13	Characterization of Precipitated Carbon by XPS and Its Prevention Mechanism of Sticking during Reduction of Fe ₂ O ₃ Particles in the Fluidized Bed. <i>ISIJ International</i> , 2013, 53, 411-418.	1.4	20
14	Progress toward Electrochemistry Intensified by using Supergravity Fields. <i>ChemElectroChem</i> , 2015, 2, 1879-1887.	3.4	20
15	Time-Dependent Surface Structure Evolution of NiMo Films Electrodeposited Under Super Gravity Field as Electrocatalyst for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16792-16802.	3.1	20
16	Sulfur removal from bauxite water slurry (BWS) electrolysis intensified by ultrasonic. <i>Ultrasonics Sonochemistry</i> , 2015, 26, 142-148.	8.2	19
17	Alumina Hydrate Polymorphism Control in Al-Water Reaction Crystallization by Seeding to Change the Metastable Zone Width. <i>Crystal Growth and Design</i> , 2016, 16, 1056-1062.	3.0	16
18	Mechanism Analysis of Carbon Contamination and the Inhibition by an Anode Structure during Soluble K ₂ CrO ₄ Electrolysis in CaCl ₂ -KCl Molten Salt. <i>Journal of the Electrochemical Society</i> , 2017, 164, E360-E366.	2.9	16

#	ARTICLE	IF	CITATIONS
19	In-situ synthesis of NaP zeolite doped with transition metals using fly ash. <i>Journal of the American Ceramic Society</i> , 2019, 102, 7665-7677.	3.8	16
20	Competition of Oxygen Evolution and Desulfurization for Bauxite Electrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6136-6144.	3.7	15
21	Roles of Electrolyte Characterization on Bauxite Electrolysis Desulfurization with Regeneration and Recycling. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 726-732.	2.1	14
22	The Importance of Slag Structure to Boron Removal from Silicon during the Refining Process: Insights from Raman and Nuclear Magnetic Resonance Spectroscopy Study. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 3239-3250.	2.1	12
23	Constructing an artificial boundary to regulate solid electrolyte interface formation and synergistically enhance stability of nano-Si anodes. <i>Journal of Colloid and Interface Science</i> , 2022, 619, 158-167.	9.4	12
24	Desulfurization from Bauxite Water Slurry (BWS) Electrolysis. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 649-656.	2.1	10
25	Electrochemical preparation of V ₂ O ₃ from NaVO ₃ and its reduction mechanism. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 1019-1024.	1.0	10
26	Roles of Ultrasound on Hydroxyl Radical Generation and Bauxite Desulfurization from Water Electrolysis. <i>Journal of the Electrochemical Society</i> , 2018, 165, E177-E183.	2.9	10
27	A flexible and conductive connection introduced by cross-linked CNTs between submicron Si@C particles for better performance LIB anode. <i>Nanoscale Advances</i> , 2021, 3, 2287-2294.	4.6	10
28	Relationship Between Iron Whisker Growth and Doping Amount of Oxide During Fe ₂ O ₃ Reduction. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 1137-1146.	2.1	8
29	Catalytic Effects of CeO ₂ /Fe ₂ O ₃ and Inherent Mineral Matter on Anthracite Combustion Reactions and Its Kinetic Analysis. <i>Energy & Fuels</i> , 2017, 31, 12867-12874.	5.1	8
30	Design of Refining Slag Based on Raman and NMR Spectroscopy Study for Removing Phosphorus for SoG-Si. <i>Silicon</i> , 2020, 12, 171-183.	3.3	8
31	Oxygen Reduction Reaction from Water Electrolysis Intensified by Pressure and O ₂ Oxidation Desulfurization. <i>Journal of the Electrochemical Society</i> , 2018, 165, E139-E147.	2.9	7
32	Fe ₃ C doped modified nano-Si/C composites as high-coulombic-efficiency anodes for lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 6170-6180.	4.9	5
33	Short-Process Multiscale Core-Shell Structure Buffer Control of a Ni/N Codoped Si@C Composite Using Waste Silicon Powder for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 178-185.	5.1	5
34	Boehmite Preparation via Alditols-Interacting Transformation of Metastable Intermediates in Al ₂ O ₃ Reaction Crystallization. <i>Crystal Growth and Design</i> , 2017, 17, 183-190.	3.0	4
35	Study on hydrocyclone separation enhancement of micro Si/SiC from silicon-sawing waste by selective comminution. <i>Separation Science and Technology</i> , 2021, 56, 991-999.	2.5	2
36	Millisecond Conversion of Photovoltaic Silicon Waste to Binder-Free High Silicon Content Nanowires Electrodes (<i>Adv. Energy Mater.</i> 40/2021). <i>Advanced Energy Materials</i> , 2021, 11, .	19.5	0

#	ARTICLE	IF	CITATIONS
37	Rationally designed high-conductivity <i>Hydrangea macrophylla</i> -like Si@NiO@Ni/C composites as a high-performance anode material for lithium-ion batteries. <i>Electrochemical Science Advances</i> , 0, , .	2.8	0