

Dong-Kyun Seo

List of Publications by Year in descending order

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75
papers

1,826
citations

279798

23
h-index

276875

41
g-index

79
all docs

79
docs citations

79
times ranked

2759
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous catalysts for biomass-derived alcohols and acid conversion. , 2022, , 297-326.		0
2	Ketonic decarboxylation and esterification of propionic acid over beta zeolites. Microporous and Mesoporous Materials, 2021, 310, 110628.	4.4	8
3	La-zeolites: efficient catalysts for acetic acid ketonic decarboxylation and esterification. Journal of Chemical Technology and Biotechnology, 2021, 96, 2022-2032.	3.2	1
4	Photoelectrochemical Water Oxidation by Cobalt Cytochrome C Integrated-ATO Photoanode. Catalysts, 2021, 11, 626.	3.5	2
5	Interfacing Photosystem I Reaction Centers with a Porous Antimony-Doped Tin Oxide Electrode to Perform Light-Driven Redox Chemistry. ACS Applied Electronic Materials, 2021, 3, 2087-2096.	4.3	7
6	Role of oxygen vacancies and Mn ⁴⁺ /Mn ³⁺ ratio in oxidation and dry reforming over cobalt-manganese spinel oxides. Molecular Catalysis, 2020, 483, 110704.	2.0	14
7	High-surface area mesoporous carbons from gel templating and inorganic-organic hybrid gel formation. Journal of Solid State Chemistry, 2020, 281, 121040.	2.9	4
8	Effects of Wax-Impregnated Nanozeolites on Bitumen's Thermomechanical Properties. ACS Sustainable Chemistry and Engineering, 2020, 8, 15299-15309.	6.7	7
9	Selective oxidation of <i>n</i> -butanol to butyraldehyde over MnCo ₂ O ₄ spinel oxides. RSC Advances, 2020, 10, 25125-25135.	3.6	7
10	Synthesized Geopolymers Adsorb Bacterial Proteins, Toxins, and Cells. Frontiers in Bioengineering and Biotechnology, 2020, 8, 527.	4.1	10
11	Polyamide thin-film nanocomposite membranes with graphene oxide nanosheets: Balancing membrane performance and fouling propensity. Desalination, 2019, 451, 139-147.	8.2	85
12	Exploratory Synthesis of Low-Silica Nanozeolites through Geopolymer Chemistry. Crystal Growth and Design, 2019, 19, 1167-1171.	3.0	12
13	Self-emitting blue and red EuOX (X = F, Cl, Br, I) materials: band structure, charge transfer energy, and emission energy. Physical Chemistry Chemical Physics, 2019, 21, 1737-1749.	2.8	22
14	Molybdenum Doped Copper Ferrites as Active Catalysts for Alcohols Oxidative Coupling. Materials, 2019, 12, 1871.	2.9	7
15	The Oxidative Coupling Between Methanol and Ethanol Over Copper Ferrites with Vanadium. Catalysis Letters, 2019, 149, 2043-2052.	2.6	0
16	Steam reforming of toluene as model of tar compound over Mo catalysts derived from hydrotalcites. Journal of Saudi Chemical Society, 2019, 23, 916-924.	5.2	6
17	Evaluation and optimization of VPSA processes with nanostructured zeolite NaX for post-combustion CO ₂ capture. Chemical Engineering Journal, 2019, 371, 693-705.	12.7	69
18	Interfacing Photosystem I Reaction Centers with a Porous Antimony-Doped Tin Oxide Electrode to Perform Light Driven Redox Chemistry. Biophysical Journal, 2019, 116, 443a.	0.5	1

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19	Superior ion release properties and antibacterial efficacy of nanostructured zeolites ion-exchanged with zinc, copper, and iron. <i>RSC Advances</i> , 2018, 8, 37949-37957.	3.6	32
20	Thickness-Dependent Bioelectrochemical and Energy Applications of Thickness-Controlled Meso-Macroporous Antimony-Doped Tin Oxide. <i>Coatings</i> , 2018, 8, 128.	2.6	1
21	New hydrogen titanium phosphate sulfate electrodes for Li-ion and Na-ion batteries. <i>Journal of Power Sources</i> , 2017, 343, 197-206.	7.8	18
22	A highly stable and scalable photosynthetic reaction center-graphene hybrid electrode system for biomimetic solar energy transduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6038-6041.	10.3	13
23	Tracking Single DNA Nanodevices in Hierarchically Meso-Macroporous Antimony-Doped Tin Oxide Demonstrates Finite Confinement. <i>Langmuir</i> , 2017, 33, 6410-6418.	3.5	3
24	Silver-Ion-Exchanged Nanostructured Zeolite X as Antibacterial Agent with Superior Ion Release Kinetics and Efficacy against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39271-39282.	8.0	36
25	Enhancing Photocurrent Generation in Photosynthetic Reaction Center-Based Photoelectrochemical Cells with Biomimetic DNA Antenna. <i>ChemSusChem</i> , 2017, 10, 4457-4460.	6.8	5
26	Hydrotalcites with vanadium, effective catalysts for steam reforming of toluene. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21732-21740.	7.1	13
27	Template-free synthesis and structural evolution of discrete hydroxycancrinite zeolite nanorods from high-concentration hydrogels. <i>Nanoscale</i> , 2017, 9, 18804-18811.	5.6	9
28	Highly Selective Solid Acid Catalyst $H_1 \times Ti_2(PO_4)_3 \times (SO_4)_x$ for Non-Oxidative Dehydrogenation of Methanol and Ethanol. <i>Catalysts</i> , 2017, 7, 95.	3.5	11
29	Coarsening and Spinodal Decomposition of Zeolite Linde Type A Precursor Gels Aged at Low Temperatures. <i>Crystal Growth and Design</i> , 2016, 16, 3224-3230.	3.0	11
30	Effect of Mo/Ce ratio in Mo-Ce-Al catalysts on the hydrogen production by steam reforming of glycerol. <i>Catalysis Science and Technology</i> , 2016, 6, 7902-7912.	4.1	8
31	Equipment-Free Deposition of Graphene-Based Molybdenum Oxide Nanohybrid Langmuir-Blodgett Films for Flexible Electrochromic Panel Application. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21539-21544.	8.0	22
32	Photocurrent Generation by Photosynthetic Purple Bacterial Reaction Centers Interfaced with a Porous Antimony-Doped Tin Oxide (ATO) Electrode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25104-25110.	8.0	15
33	Unusual Changes in Electronic Band-Edge Energies of the Nanostructured Transparent n-Type Semiconductor Zr-Doped Anatase TiO_2 ($Ti_{1-x}Zr_xO_2$; $x < 0.3$). <i>Inorganic Chemistry</i> , 2016, 55, 6574-6585.	4.0	14
34	Hydrogen production from glycerol steam reforming over molybdena-alumina catalysts. <i>Catalysis Communications</i> , 2016, 77, 83-88.	3.3	23
35	Accessing alkali-free NASICON-type compounds through mixed oxoanion sol-gel chemistry: Hydrogen titanium phosphate sulfate, $H_1 \times Ti_2(PO_4)_3 \times (SO_4)$ ($x=0.5 \sim 1$). <i>Journal of Solid State Chemistry</i> , 2016, 242, 116-125.	2.9	9
36	Remarkable flux effect of Li-codoping on highly enhanced luminescence of orthosilicate $Ba_2SiO_4:Eu^{2+}$ phosphors for NUV-LEDs: autonomous impurity purification by eutectic Li_2CO_3 melts. <i>RSC Advances</i> , 2015, 5, 105339-105346.	3.6	13

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37	Nanoporous Delafossite CuAlO_2 from Inorganic/Polymer Double Gels: A Desirable High-Surface-Area p-Type Transparent Electrode Material. <i>Inorganic Chemistry</i> , 2015, 54, 1100-1108.	4.0	20
38	Calcium-modified hierarchically porous aluminosilicate geopolymer as a highly efficient regenerable catalyst for biodiesel production. <i>RSC Advances</i> , 2015, 5, 65454-65461.	3.6	67
39	Blue-silica by Eu^{2+} -activator occupied in interstitial sites. <i>RSC Advances</i> , 2015, 5, 74790-74801.	3.6	70
40	Iron oxide-modified nanoporous geopolymers for arsenic removal from ground water. <i>Resource-efficient Technologies</i> , 2015, 1, 19-27.	0.1	27
41	Geopolymer with Hierarchically Meso/Macroporous Structures from Reactive Emulsion Templating. <i>Journal of the American Ceramic Society</i> , 2014, 97, 70-73.	3.8	71
42	Concomitant Thionation and Reduction of Graphene Oxide Through Solid/Gas Metathetical Sulfidation Reactions at High Temperatures. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2014, 189, 721-737.	1.6	11
43	Structural analysis of highly porous $\gamma\text{-Al}_2\text{O}_3$. <i>Journal of Solid State Chemistry</i> , 2014, 217, 1-8.	2.9	223
44	Preparation and electrochemical properties of nanoporous transparent antimony-doped tin oxide (ATO) coatings. <i>Journal of Materials Chemistry A</i> , 2013, 1, 699-706.	10.3	33
45	Spectroelectrochemistry of cytochrome c and azurin immobilized in nanoporous antimony-doped tin oxide. <i>Chemical Communications</i> , 2011, 47, 12367.	4.1	34
46	One-pot synthesis of highly mesoporous antimony-doped tin oxide from interpenetrating inorganic/organic networks. <i>Journal of Materials Chemistry</i> , 2011, 21, 13232.	6.7	39
47	Size-Selective Incorporation of DNA Nanocages into Nanoporous Antimony-Doped Tin Oxide Materials. <i>ACS Nano</i> , 2011, 5, 6060-6068.	14.6	18
48	Preparation of Nanoporous MgAl_2O_4 by Combined Utilization of Sol-Gel Process and Combustion of Biorenewable Oil. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1306, 1.	0.1	0
49	A synthetic strategy of quantum dot-bioconjugate. , 2010, , .		0
50	Preparation of highly porous $\gamma\text{-Al}_2\text{O}_3$ via combustion of biorenewable oil. <i>Journal of Materials Chemistry</i> , 2010, 20, 5923.	6.7	12
51	Optically tandem thin film solar cells. , 2009, , .		0
52	Preparation of photostable quantum dot-polystyrene microbeads through covalent organosilane coupling of $\text{CdSe}@ZnS$ quantum dots. <i>Journal of Materials Science</i> , 2009, 44, 816-820.	3.7	14
53	Nature of Stoner condition for metallic ferromagnetism. <i>Journal of Computational Chemistry</i> , 2008, 29, 2172-2176.	3.3	12
54	Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. <i>Progress in Solid State Chemistry</i> , 2008, 36, 1-133.	7.2	58

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55	Orbital Interpretation of Kinetic Energy Density and a Direct Space Comparison of Chemical Bonding in Tetrahedral Network Solids. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7705-7716.	2.5	4
56	Two-Dimensional Superdegeneracy and Structure-Magnetism Correlations in Strong Ferromagnet, Mn_2Ga_5 . <i>Journal of the American Chemical Society</i> , 2008, 130, 1384-1391.	13.7	19
57	Density functional perturbational orbital theory of spin polarization in electronic systems. II. Transition metal dimer complexes. <i>Journal of Chemical Physics</i> , 2007, 127, 184103.	3.0	6
58	A Facile One-Step in situ Functionalization of Quantum Dots with Preserved Photoluminescence for Bioconjugation. <i>Journal of the American Chemical Society</i> , 2007, 129, 6380-6381.	13.7	105
59	Self-interaction correction in the $LDA+U$ method. <i>Physical Review B</i> , 2007, 76, .	3.2	18
60	Synthesis of Deep-Red-Emitting CdSe Quantum Dots and General Non-Inverse-Square Behavior of Quantum Confinement in CdSe Quantum Dots. <i>Chemistry of Materials</i> , 2006, 18, 5764-5767.	6.7	59
61	Electron-Precise/Deficient $La_{5-x}Ca_xGe_4$ ($3.4 \leq x \leq 3.8$) and $Ce_{5-x}Ca_xGe_4$ ($3.0 \leq x \leq 3.3$): Probing Low-Valence Electron Concentrations in Metal-Rich Gd ₅ Si ₄ -Type Germanides.. <i>ChemInform</i> , 2006, 37, no.	0.0	1
62	Density functional perturbational orbital theory of spin polarization in electronic systems. I. Formalism. <i>Journal of Chemical Physics</i> , 2006, 125, 154105.	3.0	11
63	Preparation of Large Transparent Silica Monoliths with Embedded Photoluminescent CdSe@ZnS Core/Shell Quantum Dots. <i>Chemistry of Materials</i> , 2005, 17, 4762-4764.	6.7	78
64	Observation of Unusual Hysteretic Magnetic Properties of the Rare Earth Intermetallic Compound PrMnSi ₂ : Magnetic Susceptibility, Magnetization, Heat Capacity, and Electronic Band Structure Studies.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
65	Electron-Precise/Deficient $La_{5-x}Ca_xGe_4$ ($3.4 \leq x \leq 3.8$) and $Ce_{5-x}Ca_xGe_4$ ($3.0 \leq x \leq 3.3$): Probing Low-Valence Electron Concentrations in Metal-Rich Gd ₅ Si ₄ -type Germanides. <i>Journal of the American Chemical Society</i> , 2005, 127, 15682-15683.	13.7	46
66	Large Negative Magnetoresistance of the Rare-Earth Transition-Metal Intermetallic Compound PrMnSi ₂ . <i>Chemistry of Materials</i> , 2005, 17, 6338-6341.	6.7	5
67	Observation of Unusual Hysteretic Magnetic Properties of the Rare Earth Intermetallic Compound PrMnSi ₂ : Magnetic Susceptibility, Magnetization, Heat Capacity, and Electronic Band Structure Studies. <i>Chemistry of Materials</i> , 2005, 17, 3711-3716.	6.7	3
68	Low-temperature synthetic method for size-controlled CdSe nanocrystals: utilization of boron selenide. <i>Chemical Communications</i> , 2004, , 2298.	4.1	21
69	New Solid-Gas Metathetical Synthesis of Binary Metal Polysulfides and Sulfides at Intermediate Temperatures: Utilization of Boron Sulfides. <i>Journal of the American Chemical Society</i> , 2004, 126, 4676-4681.	13.7	47
70	Metathetical Conversion of Nd ₂ O ₃ Nanoparticles into NdS ₂ Polysulfide Nanoparticles at Low Temperatures Using Boron Sulfides. <i>Inorganic Chemistry</i> , 2003, 42, 5798-5800.	4.0	24
71	Synthesis, Structure, and Bonding of BaTl ₃ : An Unusual Competition between Cluster and Classical Bonding in the Thallium Layers. <i>Journal of the American Chemical Society</i> , 2002, 124, 415-420.	13.7	16
72	Synthesis, Structure, and Bonding of Open-Shell Sr ₃ In ₅ : An Unusual Electron Deficiency in an Indium Network, beyond the Zintl Boundary. <i>Journal of the American Chemical Society</i> , 2001, 123, 4512-4518.	13.7	37

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73	CHEMISTRY: Aromatic Metal Clusters. <i>Science</i> , 2001, 291, 841-842.	12.6	43
74	Synthesis, Structure, and Bonding of Hypoelectronic SrIn_4 : A Direct Example of a Dominant Size Effect in Structure Selection. <i>Journal of the American Chemical Society</i> , 2000, 122, 9621-9627.	13.7	54
75	Understanding Structure-forming Factors and Theory-guided Exploration of Structure-Property Relationships in Intermetallics. , 0, , 183-193.		1