

Søren Bredmose Simonsen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1039477/publications.pdf>

Version: 2024-02-01

55
papers

2,439
citations

304743

22
h-index

197818

49
g-index

57
all docs

57
docs citations

57
times ranked

3736
citing authors

#	ARTICLE	IF	CITATIONS
1	Surfactant-free syntheses and pair distribution function analysis of osmium nanoparticles. Beilstein Journal of Nanotechnology, 2022, 13, 230-235.	2.8	5
2	Co oxidation state at LSC-YSZ interface in model solid oxide electrochemical cell. Solid State Ionics, 2021, 359, 115531.	2.7	3
3	Self-Standing Nanofiber Electrodes with Pt-Co Derived from Electrospun Zeolitic Imidazolate Framework for High Temperature PEM Fuel Cells. Advanced Functional Materials, 2021, 31, 2006771.	14.9	27
4	Commercial Spirits for Surfactant-Free Syntheses of Electro-Active Platinum Nanoparticles. Sustainable Chemistry, 2021, 2, 1-7.	4.7	8
5	Nanofiber Electrodes: Self-Standing Nanofiber Electrodes with Pt-Co Derived from Electrospun Zeolitic Imidazolate Framework for High Temperature PEM Fuel Cells (Adv. Funct. Mater. 7/2021). Advanced Functional Materials, 2021, 31, 2170047.	14.9	0
6	Surfactant-free synthesis of size controlled platinum nanoparticles: Insights from in situ studies. Applied Surface Science, 2021, 549, 149263.	6.1	18
7	The Oxygen Reduction Reaction on Pt: Why Particle Size and Interparticle Distance Matter. ACS Catalysis, 2021, 11, 7144-7153.	11.2	49
8	Hybrid inks for 3D printing of tall BaTiO ₃ -based ceramics. Open Ceramics, 2021, 6, 100110.	2.0	6
9	Highly Structured Nanofiber Zeolite Materials for Biogas Upgrading. Energy Technology, 2020, 8, 1900781.	3.8	13
10	Water transport in polymer composites through swelling-induced networks of hydrogel particles. Soft Matter, 2020, 16, 8254-8261.	2.7	7
11	Solvent-Dependent Growth and Stabilization Mechanisms of Surfactant-Free Colloidal Pt Nanoparticles. Chemistry - A European Journal, 2020, 26, 9012-9023.	3.3	26
12	UV-induced syntheses of surfactant-free precious metal nanoparticles in alkaline methanol and ethanol. Nanoscale Advances, 2020, 2, 2288-2292.	4.6	15
13	Methods for Calibration of Specimen Temperature During <i>In Situ</i> Transmission Electron Microscopy Experiments. Microscopy and Microanalysis, 2020, 26, 3-17.	0.4	10
14	Advanced electrochemical investigations of niobium modified Li ₂ ZnTi ₃ O ₈ lithium ion battery anode materials. Journal of Power Sources, 2020, 462, 228186.	7.8	20
15	Inhibition of Ostwald ripening through surface switching species during potentiodynamic dissolution of platinum nanoparticles as an efficient strategy for platinum group metal (PGM) recovery. Electrochimica Acta, 2019, 321, 134662.	5.2	9
16	Effect of Fe on high performing nanostructured Ni/Gd-doped ceria electrocatalysts. Solid State Ionics, 2019, 340, 115019.	2.7	10
17	Monovalent Alkali Cations: Simple and Eco-Friendly Stabilizers for Surfactant-Free Precious Metal Nanoparticle Colloids. ACS Sustainable Chemistry and Engineering, 2019, 7, 13680-13686.	6.7	29
18	Structural Characterization of Membrane-Electrode-Assemblies in High Temperature Polymer Electrolyte Membrane Fuel Cells. Journal of the Electrochemical Society, 2019, 166, F1105-F1111.	2.9	1

#	ARTICLE	IF	CITATIONS
19	Silver Modified Cathodes for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, F79-F88.	2.9	16
20	Controlled Synthesis of Surfactant-Free Water-Dispersible Colloidal Platinum Nanoparticles by the Co4Cat Process. <i>ChemSusChem</i> , 2019, 12, 1229-1239.	6.8	27
21	Electrospun nanofiber materials for energy and environmental applications. <i>Energy Procedia</i> , 2019, 158, 6723-6724.	1.8	1
22	Transformation and migration in secondary zinc-air batteries studied by <i>in situ</i> synchrotron X-ray diffraction and X-ray tomography. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6459-6466.	10.3	19
23	Boosting the performance and durability of Ni/YSZ cathode for hydrogen production at high current densities <i>via</i> decoration with nano-sized electrocatalysts. <i>Nanoscale</i> , 2019, 11, 4394-4406.	5.6	56
24	Impact of cation redox chemistry on continuous hydrothermal synthesis of 2D-Ni(Co/Fe) hydroxides. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 2060-2073.	3.7	3
25	Continuous Hydrothermal Flow Synthesis of LaCrO ₃ in Supercritical Water and Its Application in Dual-Phase Oxygen Transport Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2123-2130.	3.7	7
26	Size effect studies in catalysis: a simple surfactant-free synthesis of sub 3Ånm Pd nanocatalysts supported on carbon. <i>RSC Advances</i> , 2018, 8, 33794-33797.	3.6	7
27	Continuous Hydrothermal Flow Synthesis of Co _{1-x} Ni _x Fe ₂ O ₄ (<i>x</i> = 0-0.8) Nanoparticles and Their Catalytic Properties for CO Oxidation and Oxygen Evolution Reaction. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> . 2018. 644. 1727-1733.	1.2	6
28	Hydrothermal Synthesis, Characterization, and Sintering Behavior of Core-Shell Particles: A Principle Study on Lanthanum Strontium Cobaltite Coated with Nanosized Gadolinium Doped Ceria. <i>Ceramics</i> , 2018, 1, 246-260.	2.6	3
29	Colloids for Catalysts: A Concept for the Preparation of Superior Catalysts of Industrial Relevance. <i>Angewandte Chemie</i> , 2018, 130, 12518-12521.	2.0	12
30	Colloids for Catalysts: A Concept for the Preparation of Superior Catalysts of Industrial Relevance. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12338-12341.	13.8	53
31	Complementary analyses of aging in a commercial LiFePO ₄ /graphite 26650 cell. <i>Electrochimica Acta</i> , 2018, 284, 454-468.	5.2	22
32	Investigating Particle Size Effects in Catalysis by Applying a Size-Controlled and Surfactant-Free Synthesis of Colloidal Nanoparticles in Alkaline Ethylene Glycol: Case Study of the Oxygen Reduction Reaction on Pt. <i>ACS Catalysis</i> , 2018, 8, 6627-6635.	11.2	119
33	On the Properties and Long-Term Stability of Infiltrated Lanthanum Cobalt Nickelates (LCN) in Solid Oxide Fuel Cell Cathodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, F748-F758.	2.9	8
34	Coarsening of carbon black supported Pt nanoparticles in hydrogen. <i>Nanotechnology</i> , 2017, 28, 475710.	2.6	8
35	In Situ TEM Analysis of a Symmetric Solid Oxide Cell in Oxygen and Vacuum - Cation Diffusion Observations. <i>ECS Transactions</i> , 2017, 75, 123-133.	0.5	5
36	In Situ TEM Study of the Coarsening of Carbon Black Supported Pt Nanoparticles in Hydrogen. <i>ECS Meeting Abstracts</i> , 2017, . .	0.0	0

#	ARTICLE	IF	CITATIONS
37	A TEM study of morphological and structural degradation phenomena in LiFePO ₄ -CB cathodes. International Journal of Energy Research, 2016, 40, 2022-2032.	4.5	11
38	Simulation, design and proof-of-concept of a two-stage continuous hydrothermal flow synthesis reactor for synthesis of functionalized nano-sized inorganic composite materials. Journal of Supercritical Fluids, 2016, 117, 1-12.	3.2	25
39	Effects of Strong Cathodic Polarization of the Ni-YSZ Interface. Journal of the Electrochemical Society, 2016, 163, F1217-F1227.	2.9	22
40	Comparison of ultramicrotomy and focused-ion-beam for the preparation of TEM and STEM cross section of organic solar cells. Applied Surface Science, 2016, 389, 462-468.	6.1	10
41	Electron microscopy investigations of changes in morphology and conductivity of LiFePO ₄ /C electrodes. Journal of Power Sources, 2016, 307, 259-269.	7.8	48
42	Coarsening of Pd nanoparticles in an oxidizing atmosphere studied by in situ TEM. Surface Science, 2016, 648, 278-283.	1.9	15
43	High-Performance Microchanneled Asymmetric Gd _{0.1} Ce _{0.9} O _{1.95} ∕La _{0.6} Sr _{0.4} FeO _{3-δ} -Based Membranes for Oxygen Separation. ACS Applied Materials & Interfaces, 2016, 8, 4548-4560.	3.5	15
44	Analysis of the Interphase on Carbon Black Formed in High Voltage Batteries. Journal of the Electrochemical Society, 2015, 162, A1289-A1296.	2.9	65
45	Enhancement of the chemical stability in confined Bi ₂ O ₃ . Nature Materials, 2015, 14, 500-504.	27.5	148
46	Eliminating degradation in solid oxide electrochemical cells by reversible operation. Nature Materials, 2015, 14, 239-244.	27.5	394
47	Environmental TEM study of the dynamic nanoscaled morphology of NiO/YSZ during reduction. Applied Catalysis A: General, 2015, 489, 147-154.	4.3	18
48	Long Term Stability Investigation of Solid Oxide Electrolysis Cell with Infiltrated Porous YSZ Air Electrode Under High Current. ECS Meeting Abstracts, 2015, , .	0.0	0
49	Quantification of tip-broadening in non-contact atomic force microscopy with carbon nanotube tips. Nanotechnology, 2012, 23, 405705.	2.6	24
50	Alloyed Ni-Fe nanoparticles as catalysts for NH ₃ decomposition. Applied Catalysis A: General, 2012, 447-448, 22-31.	4.3	81
51	Structure-activity relationships of Pt/Al ₂ O ₃ catalysts for CO and NO oxidation at diesel exhaust conditions. Applied Catalysis B: Environmental, 2012, 126, 315-325.	20.2	136
52	Effect of Particle Morphology on the Ripening of Supported Pt Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 5646-5653.	3.1	61
53	Ostwald ripening in a Pt/SiO ₂ model catalyst studied by in situ TEM. Journal of Catalysis, 2011, 281, 147-155.	6.2	181
54	Substrate Size-Selective Catalysis with Zeolite-Encapsulated Gold Nanoparticles. Angewandte Chemie - International Edition, 2010, 49, 3504-3507.	13.8	160

#	ARTICLE	IF	CITATIONS
55	Direct Observations of Oxygen-induced Platinum Nanoparticle Ripening Studied by In Situ TEM. Journal of the American Chemical Society, 2010, 132, 7968-7975.	13.7	374