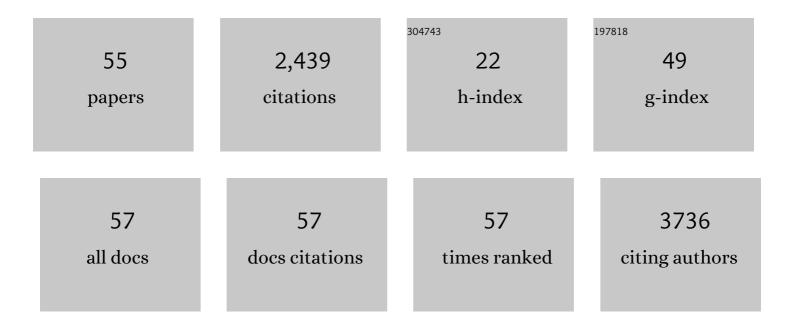
## SÃ, ren Bredmose Simonsen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1039477/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Eliminating degradation in solid oxide electrochemical cells by reversible operation. Nature Materials, 2015, 14, 239-244.	27.5	394
2	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
3	Ostwald ripening in a Pt/SiO2 model catalyst studied by in situ TEM. Journal of Catalysis, 2011, 281, 147-155.	6.2	181
4	Substrate Sizeâ€ <b>s</b> elective Catalysis with Zeoliteâ€Encapsulated Gold Nanoparticles. Angewandte Chemie - International Edition, 2010, 49, 3504-3507.	13.8	160
5	Enhancement of the chemical stability in confinedÂδ-Bi2O3. Nature Materials, 2015, 14, 500-504.	27.5	148
6	Structure–activity relationships of Pt/Al2O3 catalysts for CO and NO oxidation at diesel exhaust conditions. Applied Catalysis B: Environmental, 2012, 126, 315-325.	20.2	136
7	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. ACS Catalysis, 2018, 8, 6627-6635.	11.2	119
8	Alloyed Ni-Fe nanoparticles as catalysts for NH3 decomposition. Applied Catalysis A: General, 2012, 447-448, 22-31.	4.3	81
9	Analysis of the Interphase on Carbon Black Formed in High Voltage Batteries. Journal of the Electrochemical Society, 2015, 162, A1289-A1296.	2.9	65
10	Effect of Particle Morphology on the Ripening of Supported Pt Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 5646-5653.	3.1	61
11	Boosting the performance and durability of Ni/YSZ cathode for hydrogen production at high current densities <i>via</i> decoration with nano-sized electrocatalysts. Nanoscale, 2019, 11, 4394-4406.	5.6	56
12	Colloids for Catalysts: A Concept for the Preparation of Superior Catalysts of Industrial Relevance. Angewandte Chemie - International Edition, 2018, 57, 12338-12341.	13.8	53
13	The Oxygen Reduction Reaction on Pt: Why Particle Size and Interparticle Distance Matter. ACS Catalysis, 2021, 11, 7144-7153.	11.2	49
14	Electron microscopy investigations of changes in morphology and conductivity of LiFePO4/C electrodes. Journal of Power Sources, 2016, 307, 259-269.	7.8	48
15	High-Performance Microchanneled Asymmetric Gd <sub>0.1</sub> Ce <sub>0.9</sub> O <sub>1.95â^îŕ</sub> –La <sub>0.6</sub> Sr <sub>0.4</sub> FeO <sub> Membranes for Oxygen Separation. ACS Applied Materials &amp; Interfaces, 2016, 8, 4548-4560.</sub>	3âชิโœ/sut	>>- <b>Ba</b> sed
16	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
17	Controlled Synthesis of Surfactantâ€Free Waterâ€Ðispersible Colloidal Platinum Nanoparticles by the Co4Cat Process. ChemSusChem, 2019, 12, 1229-1239.	6.8	27
18	Self‣tanding 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

#	Article	IF	CITATIONS
19	Solventâ€Dependent Growth and Stabilization Mechanisms of Surfactantâ€Free Colloidal Pt Nanoparticles. Chemistry - A European Journal, 2020, 26, 9012-9023.	3.3	26
20	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
21	Quantification of tip-broadening in non-contact atomic force microscopy with carbon nanotube tips. Nanotechnology, 2012, 23, 405705.	2.6	24
22	Effects of Strong Cathodic Polarization of the Ni-YSZ Interface. Journal of the Electrochemical Society, 2016, 163, F1217-F1227.	2.9	22
23	Complementary analyses of aging in a commercial LiFePO4/graphite 26650 cell. Electrochimica Acta, 2018, 284, 454-468.	5.2	22
24	Advanced electrochemical investigations of niobium modified Li2ZnTi3O8 lithium ion battery anode materials. Journal of Power Sources, 2020, 462, 228186.	7.8	20
25	Transformation and migration in secondary zinc–air batteries studied by <i>in situ</i> synchrotron X-ray diffraction and X-ray tomography. Journal of Materials Chemistry A, 2019, 7, 6459-6466.	10.3	19
26	Environmental TEM study of the dynamic nanoscaled morphology of NiO/YSZ during reduction. Applied Catalysis A: General, 2015, 489, 147-154.	4.3	18
27	Surfactant-free synthesis of size controlled platinum nanoparticles: Insights from in situ studies. Applied Surface Science, 2021, 549, 149263.	6.1	18
28	Silver Modified Cathodes for Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2019, 166, F79-F88.	2.9	16
29	Coarsening of Pd nanoparticles in an oxidizing atmosphere studied by in situ TEM. Surface Science, 2016, 648, 278-283.	1.9	15
30	UV-induced syntheses of surfactant-free precious metal nanoparticles in alkaline methanol and ethanol. Nanoscale Advances, 2020, 2, 2288-2292.	4.6	15
31	Highly Structured Nanofiber Zeolite Materials for Biogas Upgrading. Energy Technology, 2020, 8, 1900781.	3.8	13
32	Colloids for Catalysts: A Concept for the Preparation of Superior Catalysts of Industrial Relevance. Angewandte Chemie, 2018, 130, 12518-12521.	2.0	12
33	A TEM study of morphological and structural degradation phenomena in LiFePO4-CB cathodes. International Journal of Energy Research, 2016, 40, 2022-2032.	4.5	11
34	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
35	Effect of Fe on high performing nanostructured Ni/Gd-doped ceria electrocatalysts. Solid State Ionics, 2019, 340, 115019.	2.7	10
36	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

#	Article	IF	CITATIONS
37	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
38	On the Properties and Long-Term Stability of Infiltrated Lanthanum Cobalt Nickelates (LCN) in Solid Oxide Fuel Cell Cathodes. Journal of the Electrochemical Society, 2017, 164, F748-F758.	2.9	8
39	Coarsening of carbon black supported Pt nanoparticles in hydrogen. Nanotechnology, 2017, 28, 475710.	2.6	8
40	Commercial Spirits for Surfactant-Free Syntheses of Electro-Active Platinum Nanoparticles. Sustainable Chemistry, 2021, 2, 1-7.	4.7	8
41	Continuous Hydrothermal Flow Synthesis of LaCrO <sub>3</sub> in Supercritical Water and Its Application in Dual-Phase Oxygen Transport Membranes. Industrial & Engineering Chemistry Research, 2018, 57, 2123-2130.	3.7	7
42	Size effect studies in catalysis: a simple surfactant-free synthesis of sub 3Ânm Pd nanocatalysts supported on carbon. RSC Advances, 2018, 8, 33794-33797.	3.6	7
43	Water transport in polymer composites through swelling-induced networks of hydrogel particles. Soft Matter, 2020, 16, 8254-8261.	2.7	7
44	Continuous Hydrothermal Flow Synthesis of Co <sub>1–<i>x</i><sub>Ni<i><sub>x</sub></i>Fe<sub>2</sub>O<sub>4</sub> (<i>x</i> = 0–0.8) Nanoparticles and Their Catalytic Properties for CO Oxidation and Oxygen Evolution Reaction. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 1727-1733.</sub></sub>	1.2	6
45	Hybrid inks for 3D printing of tall BaTiO3-based ceramics. Open Ceramics, 2021, 6, 100110.	2.0	6
46	In Situ TEM Analysis of a Symmetric Solid Oxide Cell in Oxygen and Vacuum – Cation Diffusion Observations. ECS Transactions, 2017, 75, 123-133.	0.5	5
47	Surfactant-free syntheses and pair distribution function analysis of osmium nanoparticles. Beilstein Journal of Nanotechnology, 2022, 13, 230-235.	2.8	5
48	Hydrothermal Synthesis, Characterization, and Sintering Behavior of Core-Shell Particles: A Principle Study on Lanthanum Strontium Cobaltite Coated with Nanosized Gadolinium Doped Ceria. Ceramics, 2018, 1, 246-260.	2.6	3
49	Impact of cation redox chemistry on continuous hydrothermal synthesis of 2D-Ni(Co/Fe) hydroxides. Reaction Chemistry and Engineering, 2019, 4, 2060-2073.	3.7	3
50	Co oxidation state at LSC-YSZ interface in model solid oxide electrochemical cell. Solid State Ionics, 2021, 359, 115531.	2.7	3
51	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
52	Electrospun nanofiber materials for energy and environmental applications. Energy Procedia, 2019, 158, 6723-6724.	1.8	1
53	Nanofiber Electrodes: Selfâ€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
54	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

#	Article	IF	CITATIONS
55	In Situ TEM Study of the Coarsening of Carbon Black Supported Pt Nanoparticles in Hydrogen. ECS Meeting Abstracts, 2017, , .	0.0	0