## Andris Å utka

## List of Publications by Year in descending order

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96 2,602 25 47
papers citations h-index g-index

98 98 98 3711 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Membrane-less amphoteric decoupled water electrolysis using WO <sub>3</sub> and Ni(OH) <sub>2</sub> auxiliary electrodes. Energy and Environmental Science, 2022, 15, 2021-2028.	15.6	16
2	Photochromic TiO2/PEGDA organogels. Photochemical and Photobiological Sciences, 2022, 21, 545-555.	1.6	4
3	Bioâ€Inspired Macromolecular Ordering of Elastomers for Enhanced Contact Electrification and Triboelectric Energy Harvesting. Advanced Materials Technologies, 2022, 7, .	3.0	7
4	Visible-Light Active Flexible and Durable Photocatalytic Antibacterial Ethylene-co-vinyl Acetate—Ag/AgCl/α-Fe2O3 Composite Coating. Nanomaterials, 2022, 12, 1984.	1.9	4
5	Low-density PDMS foams by controlled destabilization of thixotropic emulsions. Journal of Colloid and Interface Science, 2022, 626, 265-275.	5.0	8
6	CO <sub>2</sub> turned into a nitrogen doped carbon catalyst for fuel cells and metal–air battery applications. Green Chemistry, 2021, 23, 4435-4445.	4.6	23
7	Triboelectrification of nanocomposites using identical polymer matrixes with different concentrations of nanoparticle fillers. Journal of Materials Chemistry A, 2021, 9, 8984-8990.	5.2	32
8	Aerogel-like silica powders by combustion of sol-gel derived alcogels. Microporous and Mesoporous Materials, 2021, 315, 110895.	2.2	7
9	Antibacterial Activity of Positively and Negatively Charged Hematite ( $\hat{l}$ ±-Fe2O3) Nanoparticles to Escherichia coli, Staphylococcus aureus and Vibrio fischeri. Nanomaterials, 2021, 11, 652.	1.9	30
10	Photodoping-Inspired Room-Temperature Gas Sensing by Anatase TiO <sub>2</sub> Quantum Dots. ACS Applied Nano Materials, 2021, 4, 2522-2527.	2.4	17
11	Tribovoltaic Device Based on the W/WO <sub>3</sub> Schottky Junction Operating through Hot Carrier Extraction. Journal of Physical Chemistry C, 2021, 125, 14212-14220.	1.5	14
12	Triboelectric Laminates with Volumetric Electromechanical Response for Mechanical Energy Harvesting. Advanced Materials Technologies, 2021, 6, 2100163.	3.0	7
13	Deposition of low-density thick silica films from burning sol-gel derived alcogels. Heliyon, 2021, 7, e07675.	1.4	1
14	Rapid Catalytic Water Disinfection from Earth Abundant Ca <sub>2</sub> Fe <sub>2</sub> O <sub>5</sub> Brownmillerite. Advanced Sustainable Systems, 2021, 5, 2100130.	2.7	5
15	Probing Contact Electrification: A Cohesively Sticky Problem. ACS Applied Materials & Diterfaces, 2021, 13, 44935-44947.	4.0	31
16	Dramatic increase in polymer triboelectrification by transition from a glassy to rubbery state. Materials Horizons, 2020, 7, 520-523.	6.4	13
17	The Adhesionâ€Enhanced Contact Electrification and Efficiency of Triboelectric Nanogenerators. Macromolecular Materials and Engineering, 2020, 305, 1900638.	1.7	21
18	Behavior of nanocomposite consisting of manganese ferrite particles and atomic layer deposited bismuth oxide chloride film. Journal of Magnetism and Magnetic Materials, 2020, 498, 166167.	1.0	6

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19	Photoelectrochemical Bisphenol S Sensor Based on ZnOâ€Nanoroads Modified by Molecularly Imprinted Polypyrrole. Macromolecular Chemistry and Physics, 2020, 221, 1900232.	1.1	53
20	Identifying Iron-Bearing Nanoparticle Precursor for Thermal Transformation into the Highly Active Hematite Photo-Fenton Catalyst. Catalysts, 2020, 10, 778.	1.6	5
21	Influence of PDA Coating on the Structural, Optical and Surface Properties of ZnO Nanostructures. Nanomaterials, 2020, 10, 2438.	1.9	21
22	Strong, Rapid, and Reversible Photochromic Response of Nb Doped TiO <sub>2</sub> Nanocrystal Colloids in Hole Scavenging Media. ACS Applied Materials & Samp; Interfaces, 2020, 12, 57609-57618.	4.0	20
23	Matching the Directions of Electric Fields from Triboelectric and Ferroelectric Charges in Nanogenerator Devices for Boosted Performance. IScience, 2020, 23, 101011.	1.9	21
24	Contact electrification between identical polymers as the basis for triboelectric/flexoelectric materials. Physical Chemistry Chemical Physics, 2020, 22, 13299-13305.	1.3	24
25	Permanent photodoping of plasmonic gallium-ZnO nanocrystals. Nanoscale, 2020, 12, 6624-6629.	2.8	6
26	Kinetics of TiO2 photochromic response in different hole scavenging solvents. Photochemical and Photobiological Sciences, 2020, 19, 1072-1077.	1.6	17
27	Measuring Piezoelectric Output—Fact or Friction?. Advanced Materials, 2020, 32, e2002979.	11.1	58
28	Visible Light-Driven p-Type Semiconductor Gas Sensors Based on CaFe2O4 Nanoparticles. Sensors, 2020, 20, 850.	2.1	16
29	Solid-state supercapacitor application for pressure sensing. Applied Surface Science, 2019, 474, 91-96.	3.1	14
30	Magnetic and optical properties in degenerated transition metal and Ga co-substituted ZnO nanocrystals. Journal of Alloys and Compounds, 2019, 805, 1191-1199.	2.8	4
31	The role of intermolecular forces in contact electrification on polymer surfaces and triboelectric nanogenerators. Energy and Environmental Science, 2019, 12, 2417-2421.	15.6	77
32	Stronger Reductive Environment in Solvothermal Synthesis Leads to Improved Ga Doping Efficiency in ZnO Nanocrystals and Enhanced Plasmonic Absorption. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900335.	0.8	0
33	Sol-gel auto-combustion synthesis of Ca2Fe2O5 brownmillerite nanopowders and thin films for advanced oxidation photoelectrochemical water treatment in visible light. Journal of Environmental Chemical Engineering, 2019, 7, 103224.	3.3	14
34	Identification of Active Sites for Oxygen Reduction Reaction on Nitrogen- and Sulfur-Codoped Carbon Catalysts. Journal of Physical Chemistry C, 2019, 123, 16065-16074.	1.5	20
35	Spectrometric analysis of inner divertor materials of JET carbon and ITER-like walls. Fusion Engineering and Design, 2019, 146, 82-86.	1.0	4
36	PVA Hydrogel Electrolyte and Porous Polyisoprene Carbon Nanostructure Composite Based Pressure Sensitive Supercapacitor. IOP Conference Series: Materials Science and Engineering, 2019, 500, 012018.	0.3	2

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37	Hybrid Tribo-Piezo-Electric Nanogenerator with Unprecedented Performance Based on Ferroelectric Composite Contacting Layers. ACS Applied Energy Materials, 2019, 2, 4027-4032.	2.5	37
38	Visible light to switch-on desorption from goethite. Nanoscale, 2019, 11, 3794-3798.	2.8	10
39	Photocatalytic Nanoheterostructures and Chemically Bonded Junctions Made by Solution-Based Approaches. Critical Reviews in Solid State and Materials Sciences, 2019, 44, 239-263.	6.8	13
40	In situ investigation of poly(3,4-ethylenedioxythiophene) film growth during liquid phase deposition polymerization. Thin Solid Films, 2018, 653, 274-283.	0.8	3
41	Yttrium-doped hematite photoanodes for solar water splitting: Photoelectrochemical and electronic properties. Ceramics International, 2018, 44, 13218-13225.	2.3	19
42	Aqueous synthesis of Z-scheme photocatalyst powders and thin-film photoanodes from earth abundant elements. Journal of Environmental Chemical Engineering, 2018, 6, 2606-2615.	3.3	8
43	Inversely polarised ferroelectric polymer contact electrodes for triboelectric-like generators from identical materials. Energy and Environmental Science, 2018, 11, 1437-1443.	15.6	43
44	Triboelectric nanogenerator based on immersion precipitation derived highly porous ethyl cellulose. Journal of Electrostatics, 2018, 92, 1-5.	1.0	30
45	Humidity Influence on Optical Properties of Nanowire Colloids with Modulated Visual Response to Electrostatic Charge. Colloids and Interface Science Communications, 2018, 22, 34-37.	2.0	3
46	Mechanical reinforcement of electrospun poly(vinyl alcohol) by αâ€FeOOH nanowires. Polymer Composites, 2018, 39, 2461-2468.	2.3	6
47	Visible Light Activated Room Temperature Gas Sensors Based on CaFe2O4 Nanopowders. Proceedings (mdpi), 2018, 2, 834.	0.2	3
48	Reversible Photodoping of TiO <sub>2</sub> Nanoparticles for Photochromic Applications. Chemistry of Materials, 2018, 30, 8968-8974.	3.2	69
49	Solvothermal synthesis derived Co-Ga codoped ZnO diluted magnetic degenerated semiconductor nanocrystals. Journal of Alloys and Compounds, 2018, 763, 164-172.	2.8	17
50	Switchable Light Reflectance in Dilute Magneto-Optical Colloids Based on Nickel Ferrite Nanowires. E-Journal of Surface Science and Nanotechnology, 2018, 16, 119-121.	0.1	0
51	UVA-induced antimicrobial activity of ZnO/Ag nanocomposite covered surfaces. Colloids and Surfaces B: Biointerfaces, 2018, 169, 222-232.	2.5	37
52	PEDOT electrodes for triboelectric generator devices. Organic Electronics, 2017, 51, 446-451.	1.4	6
53	Facile synthesis of magnetically separable CoFe2O4/Ag2O/Ag2CO3 nanoheterostructures with high photocatalytic performance under visible light and enhanced stability against photodegradation. Journal of Environmental Chemical Engineering, 2017, 5, 3455-3462.	3.3	12
54	Mechanical properties of individual fiber segments of electrospun lignocelluloseâ€reinforced poly(vinyl alcohol). Journal of Applied Polymer Science, 2017, 134, .	1.3	6

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55	Additives influence on spinning solution and nano web properties. IOP Conference Series: Materials Science and Engineering, 2017, 254, 102008.	0.3	1
56	Colorimetric gas detection by the varying thickness of a thin film of ultrasmall PTSA-coated TiO <sub>2</sub> nanoparticles on a Si substrate. Beilstein Journal of Nanotechnology, 2017, 8, 229-236.	1.5	3
57	Complex tribomechanical characterization of ZnO nanowires: nanomanipulations supported by FEM simulations. Nanotechnology, 2016, 27, 335701.	1.3	19
58	Co doped ZnO nanowires as visible light photocatalysts. Solid State Sciences, 2016, 56, 54-62.	1.5	94
59	Polarizable Nanowire Colloids for Power Free Naked Eye Optical Detection of Electrostatic Surface Charges. Advanced Materials Technologies, 2016, 1, 1600154.	3.0	4
60	Thick silica foam films through combined catalytic decomposition of H2O2 and sol–gel processes. Materials and Design, 2016, 111, 80-87.	3.3	7
61	Effect of cobalt doping on the mechanical properties of ZnO nanowires. Materials Characterization, 2016, 121, 40-47.	1.9	8
62	Ag sensitized TiO <sub>2</sub> and NiFe <sub>2</sub> O <sub>4</sub> three-component nanoheterostructures: synthesis, electronic structure and strongly enhanced visible light photocatalytic activity. RSC Advances, 2016, 6, 18834-18842.	1.7	13
63	Orthorhombic CaFe2O4: A promising p-type gas sensor. Sensors and Actuators B: Chemical, 2016, 224, 260-265.	4.0	46
64	Spinel ferrite oxide semiconductor gas sensors. Sensors and Actuators B: Chemical, 2016, 222, 95-105.	4.0	360
65	Counterintuitive increase in optical scattering efficiency during negentropic orientational transition in dilute ZnO nanowire suspensions. RSC Advances, 2015, 5, 104149-104154.	1.7	4
66	Fabrication of Lead Titanate <scp>P</scp> b <scp>T</scp> i <scp>O</scp> <sub>3</sub> Nanofiber Mats Via Electrospinning. International Journal of Applied Ceramic Technology, 2015, 12, E117.	1.1	3
67	Comparison of the electrochemical properties of hematite thin films prepared by spray pyrolysis and electrodeposition. Ceramics International, 2015, 41, 9024-9029.	2.3	13
68	Switchable optical transmittance of TiO2 submicron-diameter wire suspension-based "smart window― device. Optical Materials, 2015, 46, 418-422.	1.7	12
69	Photocatalytic activity of anatase–nickel ferrite heterostructures. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 796-803.	0.8	15
70	Electrospinning of Poly(Vinyl Alcohol) Nanofiber Mats Reinforced by Lignocellulose Nanowhiskers. Soft Materials, 2015, 13, 18-23.	0.8	8
71	Enhanced stability of PVA electrospun fibers in water by adding cellulose nanocrystals. Holzforschung, 2015, 69, 737-743.	0.9	23
72	A straightforward and "green―solvothermal synthesis of Al doped zinc oxide plasmonic nanocrystals and piezoresistive elastomer nanocomposite. RSC Advances, 2015, 5, 63846-63852.	1.7	18

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73	Comparison of photocatalytic activity for different co-precipitated spinel ferrites. Research on Chemical Intermediates, 2015, 41, 9439-9449.	1.3	24
74	Mechanical characterization of TiO2 nanofibers produced by different electrospinning techniques. Materials Characterization, 2015, 100, 98-103.	1.9	25
75	Study of the structural phase transformation of iron oxide nanoparticles from an Fe2+ ion source by precipitation under various synthesis parameters and temperatures. Materials Chemistry and Physics, 2015, 149-150, 473-479.	2.0	37
76	Synthesis of p-type and n-type nickel ferrites and associated electrical properties. Physica B: Condensed Matter, 2015, 456, 232-236.	1.3	33
77	Photocatalytic activity of non-stoichiometric ZnFe <sub>2</sub> O <sub>4</sub> under visible light irradiation. Physica Scripta, 2014, 89, 044011.	1.2	35
78	Effects of Co ion addition and annealing conditions on nickel ferrite gas response. Sensors and Actuators B: Chemical, 2014, 192, 173-180.	4.0	41
79	TiO <sub>2</sub> nanowire dispersions in viscous polymer matrix: electrophoretic alignment and optical properties. Nanotechnology, 2014, 25, 415703.	1.3	13
80	Electro-optics of electrospun TiO2 anatase submicron wire based dipole particle suspension device. Optical Materials, 2014, 37, 740-744.	1.7	2
81	Precipitation synthesis of magnetite Fe3O4 nanoflakes. Ceramics International, 2014, 40, 11437-11440.	2.3	20
82	Comparison of different methods to produce dense zinc ferrite ceramics with high electrical resistance. Ceramics International, 2014, 40, 2519-2522.	2.3	12
83	Study of Defects by Rietveld Technique and Gas Response of Excess-Iron Zinc Ferrite. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, S81-S84.	0.1	5
84	Electric and dielectric properties of nanostructured stoichiometric and excess-iron Ni–Zn ferrites. Physica Scripta, 2013, 87, 025601.	1.2	11
85	Ethanol monitoring by ZnFe2O4 thin film obtained by spray pyrolysis. Sensors and Actuators B: Chemical, 2013, 176, 330-334.	4.0	70
86	Monophasic ZnFe2O4 synthesis from a xerogel layer by auto combustion. Ceramics International, 2013, 39, 8499-8502.	2.3	15
87	Effect of antisite defects on the magnetic properties of ZnFe <sub>2</sub> O <sub>4</sub> . Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1892-1897.	0.8	26
88	The Role of Stoichiometry on Gas Response of Nanostructured Sol–Gel Auto Combustion Derived Nickel Ferrite. Sensor Letters, 2013, 11, 2010-2013.	0.4	11
89	Properties of Ni–Zn ferrite thin films deposited using spray pyrolysis. Thin Solid Films, 2012, 526, 65-69.	0.8	30
90	Influence of iron non-stoichiometry on spinel zinc ferrite gas sensing properties. Sensors and Actuators B: Chemical, 2012, 171-172, 204-209.	4.0	74

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91	Gas sensing properties of Zn-doped p-type nickel ferrite. Sensors and Actuators B: Chemical, 2012, 171-172, 354-360.	4.0	73
92	Sol-gel auto-combustion synthesis of spinel-type ferrite nanomaterials. Frontiers of Materials Science, 2012, 6, 128-141.	1.1	356
93	An alternative method to modify the sensitivity of p-type NiFe2O4 gas sensor. Journal of Materials Science, 2012, 47, 2856-2863.	1.7	49
94	Effect of Cooling Conditions on Nano-Sized NiFe <sub>2</sub> O <sub>4</sub> Electrical Properties. Advanced Materials Research, 2011, 222, 263-266.	0.3	2
95	The effect of heating conditions on the properties of nano- and microstructured Ni–Zn ferrite. Physica Scripta, 2011, 83, 025601.	1.2	30
96	A comparative study of Ni <sub>0.7</sub> Zn <sub>0.3</sub> Fe <sub>2</sub> O <sub>4</sub> obtained by sol-gel auto-combustion and flash combustion methods. IOP Conference Series: Materials Science and Engineering, 2011, 25, 012019.	0.3	12