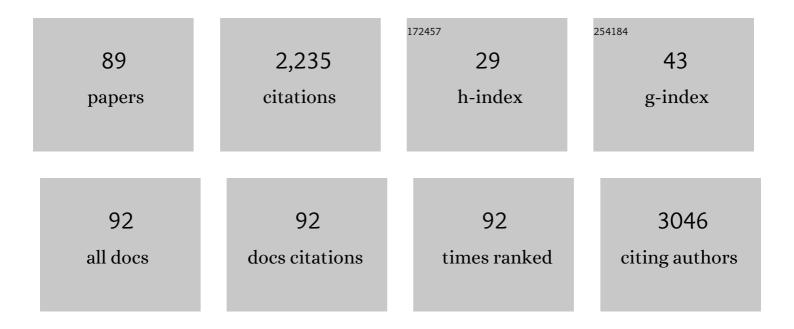
Stefan Krischok

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electronic Structure of the Surface of the Ionic Liquid [EMIM][Tf2N] Studied by Metastable Impact Electron Spectroscopy (MIES), UPS, and XPS. Langmuir, 2006, 22, 7120-7123.	3.5	187

 $_{2}$ H2O interaction with bare and Li-precovered TiO2: studies with electron spectroscopies (MIES and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 rgBT /O

3	Temperature-Dependent Electronic and Vibrational Structure of the 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide Room-Temperature Ionic Liquid Surface:Â A Study with XPS, UPS, MIES, and HREELSâ€. Journal of Physical Chemistry B, 2007, 111, 4801-4806.	2.6	98
4	Plasma electrochemistry in ionic liquids: deposition of coppernanoparticles. Physical Chemistry Chemical Physics, 2010, 12, 1750-1755.	2.8	95
5	AlGaN/GaN biosensor—effect of device processing steps on the surface properties and biocompatibility. Sensors and Actuators B: Chemical, 2007, 123, 740-748.	7.8	67
6	Interaction between core and protection shell of N(butyl)4Cl- and N(octyl)4Cl-stabilized Pd colloids. Surface Science, 2002, 497, 321-332.	1.9	65
7	Improved adhesion at titanium surfaces via laser-induced surface oxidation and roughening. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 558, 755-760.	5.6	55
8	The characterization of SrTiO3() with MIES, UPS(HeI) and first-principles calculations. Surface Science, 2002, 515, 499-506.	1.9	53
9	Pyrolysis of cellulose and lignin. Applied Surface Science, 2009, 255, 8183-8189.	6.1	53
10	Water and Methanol Adsorption on MgO(100)/Mo(100) Studied by Electron Spectroscopies and Thermal Programmed Desorption. Journal of Physical Chemistry B, 2000, 104, 5738-5743.	2.6	47
11	Ag-adsorption on MgO: investigations with MIES and UPS. Surface Science, 2001, 473, 86-96.	1.9	46
12	Electrochemical lithiation of thin silicon based layers potentiostatically deposited from ionic liquid. Electrochimica Acta, 2015, 168, 403-413.	5.2	42
13	Morphology and surface electronic structure of MBE grown InN. Journal of Crystal Growth, 2007, 306, 6-11.	1.5	41
14	The role of surface electron accumulation and bulk doping for gas-sensing explored with single-crystalline In2O3 thin films. Sensors and Actuators B: Chemical, 2016, 236, 909-916.	7.8	41
15	A time-of-flight secondary ion mass spectroscopy study of 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide RT-ionic liquid. Surface Science, 2008, 602, 3403-3407.	1.9	40
16	Electronic properties of organic semiconductor blends: Ambipolar mixtures of phthalocyanine and fullerene. Applied Physics Letters, 2007, 90, 212112.	3.3	39
17	Influence of ion implantation on titanium surfaces for medical applications. Surface Science, 2007, 601, 3856-3860.	1.9	37
18	Theoretical reconstruction and elementwise analysis of photoelectron spectra for imidazolium-based ionic liquids. Physical Chemistry Chemical Physics, 2011, 13, 19526.	2.8	37

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19	Nanoscale multilayer WC/C coatings developed for nanopositioning: Part I. Microstructures and mechanical properties. Thin Solid Films, 2005, 488, 132-139.	1.8	36
20	MIES and UPS(HeI) studies on reduced TiO2(110). Surface and Interface Analysis, 2005, 37, 77-82.	1.8	35
21	Plasma Electrochemistry in 1â€Butylâ€3â€methylimidazolium dicyanamide: Copper Nanoparticles from CuCl and CuCl ₂ . Plasma Processes and Polymers, 2011, 8, 32-37.	3.0	35
22	Electron promotion in collisions of protons with a LiF surface. Physical Review B, 1999, 59, 10950-10958.	3.2	33
23	Surface Electronic Structure of Imidazolium-Based Ionic Liquids Studied by Electron Spectroscopy. E-Journal of Surface Science and Nanotechnology, 2010, 8, 241-245.	0.4	33
24	Changes of the near-surface chemical composition of the 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide room temperature ionic liquid under the influence of irradiation. Physical Chemistry Chemical Physics, 2011, 13, 1174-1181.	2.8	33
25	Nanometer precise adjustment of the silver shell thickness during automated Au–Ag core–shell nanoparticle synthesis in micro fluid segment sequences. Nanoscale, 2014, 6, 5230.	5.6	33
26	A Comparative Study on the Electronic Structure of the 1-Ethyl-3-Methylimidazolium Bis(trifluoromethylsulfonyl)amide RT-Ionic Liquid by Electron Spectroscopy and First Principles Calculations. Zeitschrift Fur Physikalische Chemie, 2006, 220, 1407-1416.	2.8	31
27	Effect of Annealing on the Properties of Indiumâ^'Tinâ^'Oxynitride Films as Ohmic Contacts for GaN-Based Optoelectronic Devices. ACS Applied Materials & Interfaces, 2009, 1, 1451-1456.	8.0	30
28	Multiple stress degradation analysis of the active layer in organic photovoltaics. Solar Energy Materials and Solar Cells, 2014, 120, 654-668.	6.2	30
29	Analysis of polar GaN surfaces with photoelectron and high resolution electron energy loss spectroscopy. Physica Status Solidi (B): Basic Research, 2010, 247, 1658-1661.	1.5	29
30	DNAâ€sensor based on AlGaN/GaN high electron mobility transistor. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1626-1629.	1.8	29
31	Formation of silicon grass: Nanomasking by carbon clusters in cyclic deep reactive ion etching. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, 011002.	1.2	29
32	Confirmation of intrinsic electron gap states at nonpolar GaN(1-100) surfaces combining photoelectron and surface optical spectroscopy. Applied Physics Letters, 2014, 104, .	3.3	28
33	Enhanced lithium ion storage in TiO2 nanoparticles, induced by sulphur and carbon co-doping. Journal of Power Sources, 2016, 326, 270-278.	7.8	27
34	Processing Strategies for High-Performance Schottky Contacts on n-Type Oxide Semiconductors: Insights from In ₂ O ₃ . ACS Applied Materials & Interfaces, 2019, 11, 27073-27087.	8.0	26
35	Morphology, Crystal Structure and Charge Transport in Donor–Acceptor Block Copolymer Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 12309-12318.	8.0	23
36	Morphology controlled open circuit voltage in polymer solar cells. Physica Status Solidi - Rapid Research Letters, 2011, 5, 247-249.	2.4	22

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37	Optimizing hydrogen evolution activity of nanoporous electrodes by dual-step surface engineering. Applied Catalysis B: Environmental, 2019, 244, 87-95.	20.2	22
38	Surface states and electronic structure of polar and nonpolar InN – An <i>in situ</i> photoelectron spectroscopy study. Applied Physics Letters, 2013, 102, .	3.3	21
39	Characterization of asâ€grown and adsorbateâ€covered Nâ€polar InN surfaces using <i>in situ</i> photoelectron spectroscopy. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 45-49.	1.8	20
40	Valence band structure of cellulose and lignin studied by XPS and DFT. Cellulose, 2012, 19, 1005-1011.	4.9	20
41	Effect of surface oxidation on electron transport in InN thin films. Journal of Applied Physics, 2007, 101, 123705.	2.5	19
42	Photoelectron spectroscopy on ionic liquid surfaces — Theory and experiment. Journal of Molecular Liquids, 2014, 192, 77-86.	4.9	19
43	Metal (Cu; Pd) adsorption on MgO: investigations with MIES and UPS. Applied Physics A: Materials Science and Processing, 2006, 82, 167-173.	2.3	18
44	Surface composition and electronic properties of indium tin oxide and oxynitride films. Surface Science, 2007, 601, 4082-4086.	1.9	18
45	PAMBE growth and inâ€situ characterisation of clean (2 × 2) and (â^š3 × â^š3) R30° reconstructed InN(0001) thin films. Physica Status Solidi (B): Basic Research, 2009, 246, 1173-1176.) _{1.5}	18
46	Consequences of plasma oxidation and vacuum annealing on the chemical properties and electron accumulation of In2O3 surfaces. Journal of Applied Physics, 2016, 120, .	2.5	18
47	A comparative analysis of electron spectroscopy and first-principles studies on Cu(Pd) adsorption on MgO. Surface Science, 2006, 600, 3815-3820.	1.9	17
48	Surface Electronic Structure of [XMIm]Cl Probed by Surfaceâ€Sensitive Spectroscopy. ChemPhysChem, 2012, 13, 1718-1724.	2.1	17
49	Modification of the Active Layer/PEDOT:PSS Interface by Solvent Additives Resulting in Improvement of the Performance of Organic Solar Cells. ACS Applied Materials & amp; Interfaces, 2014, 6, 11068-11081.	8.0	16
50	The interface between benzenes (C6H6;C6H5Cl;2-C6H4OHCl) and amorphous solid water studied with metastable impact electron spectroscopy and ultraviolet photoelectron spectroscopy (Hel and II). Journal of Chemical Physics, 2004, 120, 5407-5413.	3.0	15
51	Towards Understanding the Crossâ€6ensitivity of In ₂ O ₃ Based Ozone Sensors: Effects of O ₃ , O ₂ and H ₂ O Adsorption at In ₂ O ₃ (111) Surfaces. Physica Status Solidi (B): Basic Research, 2018, 255, 1700324.	1.5	15
52	Irreversible dilation of graphite composite anodes influenced by vinylene carbonate. Journal of Power Sources, 2020, 457, 228020.	7.8	15
53	Electrochemical deposition of silicon from a sulfolane-based electrolyte: Effect of applied potential. Electrochemistry Communications, 2019, 103, 7-11.	4.7	13
54	Lithium adsorption on TiO2: studies with electron spectroscopies (MIES and UPS). Surface and Interface Analysis, 2005, 37, 83-89.	1.8	12

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55	An Electrochemical and Photoelectron Spectroscopy Study of a Low Temperature Liquid Metal Battery Based on an Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2016, 163, A2488-A2493.	2.9	12
56	Effects of Plasma Parameter on Morphological and Electrical Properties of Superconducting Nb-N Deposited by MO-PEALD. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-7.	1.7	12
57	Tuning of Surface Properties of AlGaN/GaN Sensors for Nanodroplets and Picodroplets. IEEE Sensors Journal, 2006, 6, 881-886.	4.7	11
58	AlInN/GaN based multi quantum well structures – growth and optical properties. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S451.	0.8	11
59	Changes in the valence band structure of asâ€grown InN(0001)â€2 × 2 surfaces upon exposure to ox and water. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1037-1040.	ygen 1.8	11
60	Thermal Functionalization of GaN Surfaces with 1-Alkenes. Langmuir, 2013, 29, 6296-6301.	3.5	11
61	MOVPE Growth and Characterization of AllnN FET Structures on Si(111). Materials Research Society Symposia Proceedings, 2008, 1068, 1.	0.1	10
62	Valence band offsets at oxide/InN interfaces determined by Xâ€ray photoelectron spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 685-688.	0.8	10
63	Correlation between structural and electrical properties of InN thin films prepared by molecular beam epitaxy. Superlattices and Microstructures, 2006, 40, 289-294.	3.1	9
64	Electronic properties of C60/InP(001) heterostructures. Journal of Physics Condensed Matter, 2006, 18, 9841-9848.	1.8	9
65	A novel bio-functionalization of AlGaN/GaN-ISFETs for DNA-sensors. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1810-1813.	0.8	9
66	Automated Parameter Extraction Of ScAlN MEMS Devices Using An Extended Euler–Bernoulli Beam Theory. Sensors, 2020, 20, 1001.	3.8	9
67	Influence of plasma treatments on the properties of GaN/AlGaN/GaN HEMT structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1096-1098.	0.8	8
68	Two-dimensional electron gas of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>In</mml:mi><mml:m mathvariant="normal">O<mml:mn>3</mml:mn></mml:m </mml:msub></mml:mrow> surface: Enhanced thermopower, electrical transport properties, and reduction by adsorbates or</mml:math 	n>23.2	l:mn>8
69	compensating acceptor doping. Physical Review B, 2020, 102, . Preparation and characterization of poly(l-histidine)/poly(l-glutamic acid) multilayer on silicon with nanometer-sized surface structures. Journal of Colloid and Interface Science, 2012, 386, 252-259.	9.4	7
70	The influence of Sahara sand on the degradation behavior of float glass surfaces. Journal of Non-Crystalline Solids, 2018, 479, 16-28.	3.1	7
71	Comparative study of weather induced corrosion mechanisms of toughened and normal float glasses. Glass Technology: European Journal of Glass Science and Technology Part A, 2019, 60, 33-44.	0.2	7
72	Understanding the initial stages of Si electrodeposition under diffusion kinetic limitation in ionic liquid-based electrolytes. Journal of Crystal Growth, 2020, 531, 125346.	1.5	7

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73	Pyrolysis of wood-based polymer compounds. Journal of Analytical and Applied Pyrolysis, 2010, 87, 124-128.	5.5	6
74	Surface composition of [BMP][Tf2N] and [PMIm][Tf2N] in the presence of NbF5 and TaF5. A photoelectron spectroscopy study. Journal of Molecular Liquids, 2017, 226, 78-84.	4.9	6
75	Electrogravimetry and Structural Properties of Thin Silicon Layers Deposited in Sulfolane and Ionic Liquid Electrolytes. ACS Applied Materials & Interfaces, 2020, 12, 57526-57538.	8.0	6
76	Properties and electrochemical characteristics of boron-doped multi-walled carbon nanotubes. Chemical Physics Letters, 2015, 639, 217-224.	2.6	5
77	Influence of intermediate layers on the surface condition of laser crystallized silicon thin films and solar cell performance. Journal of Applied Physics, 2016, 119, 045306.	2.5	5
78	Nanoscale Morphological Changes at Lithium Interface, Triggered by the Electrolyte Composition and Electrochemical Cycling. Journal of Chemistry, 2019, 2019, 1-13.	1.9	5
79	Enhanced cycling performance of binder free silicon-based anode by application of electrochemically formed microporous substrate. Electrochimica Acta, 2021, 380, 138216.	5.2	4
80	Microgravimetric and Spectroscopic Analysis of Solidâ^'Electrolyte Interphase Formation in Presence of Additives. ChemPhysChem, 2019, 20, 655-664.	2.1	3
81	Chemical changes of float glass surfaces induced by different sand particles and mineralogical phases. Journal of Non-Crystalline Solids, 2021, 566, 120868.	3.1	3
82	Determination of the valence band offsets at HfO ₂ /InN(0001) and InN/In _{0.3} Ga _{0.7} N(0001) heterojunctions using Xâ€ray photoelectron spectroscopy. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1335-1337.	1.8	2
83	Plasma affected 2DEG properties on GaN/AlGaN/GaN HEMTs. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 938-941.	0.8	2
84	Investigation of the influence of a commercial glass protector on float glass surfaces by x-ray photoelectron spectroscopy. Journal of Commonwealth Law and Legal Education, 2017, 58, 99-108.	0.5	2
85	Aluminum Electrode Insulation Dynamics via Interface Oxidation by Reactant Diffusion in Organic Layers. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800474.	1.8	2
86	Ab-initio reconstruction of metastable-induced electron-emission spectra (MIES) for molecules. Nuclear Instruments & Methods in Physics Research B, 2020, 478, 62-69.	1.4	1
87	Reversible Sodiation of Electrochemically Deposited Binder―and Conducting Additiveâ€Free Si–O–C Composite Layers. Energy Technology, 0, , 2101164.	3.8	1
88	Development of low gain avalanche detectors (LGAD) in frame of the acceptor removal phenomenon. Physica Status Solidi (A) Applications and Materials Science, 0, , .	1.8	1
89	Anisotropy of the ΔE Effect in Ni-Based Magnetoelectric Cantilevers: A Finite Element Method Analysis. Sensors, 2022, 22, 4958.	3.8	1