

# Philipp HÄjnicke

## List of Publications by Year in descending order

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55  
papers

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citations

516710

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h-index

642732

23  
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56  
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56  
docs citations

56  
times ranked

625  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous Dimensional and Analytical Characterization of Ordered Nanostructures. <i>Small</i> , 2022, 18, e2105776.	10.0	7
2	Reliable compositional analysis of airborne particulate matter beyond the quantification limits of total reflection X-ray fluorescence. <i>Analytica Chimica Acta</i> , 2022, 1192, 339367.	5.4	9
3	Polysulfide driven degradation in lithium-sulfur batteries during cycling – quantitative and high time-resolution operando X-ray absorption study for dissolved polysulfides probed at both electrode sides. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10231-10239.	10.3	15
4	Quantitative manganese dissolution investigation in lithium-ion batteries by means of X-ray spectrometry techniques. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2056-2062.	3.0	9
5	Function of Hemoglobin-Based Oxygen Carriers: Determination of Methemoglobin Content by Spectral Extinction Measurements. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1753.	4.1	5
6	Shape- and Element-Sensitive Reconstruction of Periodic Nanostructures with Grazing Incidence X-ray Fluorescence Analysis and Machine Learning. <i>Nanomaterials</i> , 2021, 11, 1647.	4.1	16
7	Laboratory grazing-incidence X-ray fluorescence spectroscopy as an analytical tool for the investigation of sub-nanometer CrSc multilayer water window optics. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 174, 105995.	2.9	1
8	Validation of secondary fluorescence excitation in quantitative X-ray fluorescence analysis of thin alloy films. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1664-1670.	3.0	10
9	Towards a traceable enhancement factor in surface-enhanced Raman spectroscopy. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16513-16519.	5.5	19
10	Speciation of iron sulfide compounds by means of X-ray emission spectroscopy using a compact full-cylinder von Hamos spectrometer. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2679-2685.	3.0	8
11	Towards a calibration of laboratory setups for grazing incidence and total-reflection X-ray fluorescence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 174, 106009.	2.9	6
12	Material combination of Tunnel-SiO <sub>2</sub> with a (sub-)Monolayer of ALD-AlO <sub>x</sub> on silicon offering a highly passivating hole selective contact. <i>Solar Energy Materials and Solar Cells</i> , 2020, 215, 110654.	6.2	20
13	Interaction of nanoparticle properties and X-ray analytical techniques. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1022-1033.	3.0	9
14	Grazing incidence-x-ray fluorescence for a dimensional and compositional characterization of well-ordered 2D and 3D nanostructures. <i>Nanotechnology</i> , 2020, 31, 505709.	2.6	12
15	Experimental determination of line energies, line widths and relative transition probabilities of the Gadolinium L x-ray emission spectrum. <i>Metrologia</i> , 2019, 56, 065007.	1.2	8
16	Amorphous Gadolinium Aluminate as a Dielectric and Sulfur for Indium Phosphide Passivation. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2190-2201.	4.3	8
17	Local structural investigation of hafnia-zirconia polymorphs in powders and thin films by X-ray absorption spectroscopy. <i>Acta Materialia</i> , 2019, 180, 158-169.	7.9	19
18	Intercalation of Lithium Ions from Gaseous Precursors into $\delta$ -MnO <sub>2</sub> Thin Films Deposited by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15802-15814.	3.1	11

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19	Reference-free grazing incidence x-ray fluorescence and reflectometry as a methodology for independent validation of x-ray reflectometry on ultrathin layer stacks and a depth-dependent characterization. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	22
20	Grazing incidence x-ray fluorescence based characterization of nanostructures for element sensitive profile reconstruction. , 2019, , .		5
21	Element sensitive reconstruction of nanostructured surfaces with finite elements and grazing incidence soft X-ray fluorescence. <i>Nanoscale</i> , 2018, 10, 6177-6185.	5.6	29
22	Relative L3 transition probabilities of titanium compounds as a function of the oxidation state using high-resolution X-ray emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 145, 71-78.	2.9	9
23	Development and characterization of sub-monolayer coatings as novel calibration samples for X-ray spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 145, 36-42.	2.9	12
24	Transfer-Free In Situ CCVD Grown Nanocrystalline Graphene for Sub-PPMV Ammonia Detection. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, Q3108-Q3113.	1.8	8
25	Development and Synchrotron-Based Characterization of Al and Cr Nanostructures as Potential Calibration Samples for 3D Analytical Techniques. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700866.	1.8	12
26	Accurate experimental determination of gallium K- and L3-shell XRF fundamental parameters. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1003-1013.	3.0	20
27	Determination of SiO <sub>2</sub> and C layers on a monocrystalline silicon sphere by reference-free x-ray fluorescence analysis. <i>Metrologia</i> , 2017, 54, 481-486.	1.2	6
28	What are the correct L-subshell photoionization cross sections for quantitative X-ray spectroscopy?. <i>X-Ray Spectrometry</i> , 2016, 45, 207-211.	1.4	12
29	Fundamental parameter determination to improve spectroscopical methods. , 2016, , .		0
30	Surface characterization of silicon spheres by combined XRF and XPS analysis for determination of the avogadro constant. , 2016, , .		1
31	Sacrificial Self-Assembled Monolayers for the Passivation of GaAs (100) Surfaces and Interfaces. <i>Chemistry of Materials</i> , 2016, 28, 5689-5701.	6.7	20
32	Multiparameter characterization of subnanometre Cr/Sc multilayers based on complementary measurements. <i>Journal of Applied Crystallography</i> , 2016, 49, 2161-2171.	4.5	33
33	Reference-free, depth-dependent characterization of nanolayers and gradient systems with advanced grazing incidence X-ray fluorescence analysis. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 523-528.	1.8	16
34	Fundamental parameters of Zr and Ti for a reliable quantitative X-ray fluorescence analysis. <i>X-Ray Spectrometry</i> , 2015, 44, 217-220.	1.4	22
35	Depth profiling of low energy ion implantations in Si and Ge by means of micro-focused grazing emission X-ray fluorescence and grazing incidence X-ray fluorescence. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1086-1099.	3.0	15
36	Characterization of High-k Nanolayers by Grazing Incidence X-ray Spectrometry. <i>Materials</i> , 2014, 7, 3147-3159.	2.9	37

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37	Experimental Verification of the Individual Energy Dependencies of the Partial $L$ -Shell Photoionization Cross Sections of Pd and Mo. <i>Physical Review Letters</i> , 2014, 113, 163001.	7.8	25
38	Grazing angle X-ray fluorescence from periodic structures on silicon and silica surfaces. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 98, 65-75.	2.9	17
39	Complementary methodologies for thin film characterization in one tool – a novel instrument for 450 mm wafers. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 549.	3.0	6
40	Impact of ammonium sulfide solution on electronic properties and ambient stability of germanium surfaces: towards Ge-based microelectronic devices. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4105.	5.5	13
41	Oxidation and Sulfidation of Germanium Surfaces: A Comparative Atomic Level Study of Different Passivation Schemes. <i>ECS Transactions</i> , 2013, 50, 569-579.	0.5	2
42	Grazing-incidence x-ray fluorescence analysis for non-destructive determination of In and Ga depth profiles in Cu(In,Ga)Se <sub>2</sub> absorber films. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	15
43	subshell fluorescence yields and Coster-Kronig transition probabilities with a reliable uncertainty budget for selected high- and medium- $Z$ elements. <i>Physical Review A</i> , 2012, 86, .	2.5	49
44	Characterization of ultra-shallow aluminum implants in silicon by grazing incidence and grazing emission X-ray fluorescence spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1432.	3.0	35
45	Focusing of soft X-ray radiation and characterization of the beam profile enabling X-ray emission spectrometry at nanolayered specimens. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 78, 37-41.	2.9	9
46	Quantitative depth profiling of boron and arsenic ultra low energy implants by pulsed rf-GD-ToFMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 542-549.	3.0	18
47	Depth profile characterization of ultra shallow junction implants. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 2825-2832.	3.7	50
48	Characterisation of Self-Assembled Monolayers on Germanium Surfaces via NEXAFS. <i>ECS Transactions</i> , 2009, 19, 227-234.	0.5	2
49	Preparation and Characterization of Self-Assembled Monolayers on Germanium Surfaces. <i>Solid State Phenomena</i> , 2009, 145-146, 169-172.	0.3	12
50	Depth-profiling of vertical sidewall nanolayers on structured wafers by grazing incidence X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 1359-1364.	2.9	10
51	Advanced Metrologies for Wafer Contamination and Nanolayer Characterization Using XRF Methods. <i>ECS Transactions</i> , 2007, 11, 273-279.	0.5	4
52	Complementary Metrology within a European Joint Laboratory. <i>Solid State Phenomena</i> , 0, 145-146, 97-100.	0.3	9
53	X-Ray Induced Depth Profiling of Ion Implantations into Various Semiconductor Materials. <i>Solid State Phenomena</i> , 0, 195, 274-276.	0.3	1
54	Reliable Quantification of Inorganic Contamination by TXRF. <i>Solid State Phenomena</i> , 0, 187, 291-294.	0.3	4

#	ARTICLE	IF	CITATIONS
55	Reference Samples for Ultra Trace Analysis of Organic Compounds on Substrate Surfaces. Solid State Phenomena, 0, 187, 295-298.	0.3	2