

# Martin Becker

## List of Publications by Year in descending order

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32  
papers

961  
citations

840776

11  
h-index

434195

31  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1582  
citing authors

#	ARTICLE	IF	CITATIONS
1	Binary copper oxide semiconductors: From materials towards devices. Physica Status Solidi (B): Basic Research, 2012, 249, 1487-1509.	1.5	547
2	Influence of doping with alkaline earth metals on the optical properties of thermochromic VO <sub>2</sub> . Journal of Applied Physics, 2015, 117, .	2.5	61
3	Raman studies of the intermediate tin-oxide phase. Physical Review Materials, 2017, 1, .	2.4	54
4	Polycrystalline SnO <sub>2</sub> films grown by chemical vapor deposition on quartz glass. Vacuum, 2015, 122, 347-352.	3.5	47
5	Thermally switchable terahertz wavefront metasurface modulators based on the insulator-to-metal transition of vanadium dioxide. Optics Express, 2019, 27, 20347.	3.4	44
6	Materials processing using radio-frequency ion-sources: Ion-beam sputter-deposition and surface treatment. Review of Scientific Instruments, 2019, 90, 023901.	1.3	27
7	Synthesis of tin oxides SnO <sub>x</sub> in the entire composition range ( $x = 0$ to $1$ ) by ion-beam sputter-deposition. Physica Status Solidi - Rapid Research Letters, 2015, 9, 326-330.	2.4	23
8	Electrochromic switching of tungsten oxide films grown by reactive ion-beam sputter deposition. Journal of Materials Science, 2021, 56, 615-628.	3.7	21
9	NiO films on sapphire as potential antiferromagnetic pinning layers. Journal of Applied Physics, 2017, 122, .	2.5	16
10	Controlling the p-type conductivity of SnO by doping with nitrogen and hydrogen. Journal of Applied Physics, 2019, 125, .	2.5	14
11	Stannic oxide thin film growth via ion-beam-sputtering. Thin Solid Films, 2014, 553, 26-29.	1.8	11
12	Electron paramagnetic resonance signatures of Co <sup>2+</sup> and Cu <sup>2+</sup> in $\text{Ga}_2\text{O}_3$ . Applied Physics Letters, 2019, 115, .	3.3	11
13	Impact of Composition $x$ on the Refractive Index of Ni <sub>x</sub> O. Physica Status Solidi (B): Basic Research, 2018, 255, 1700463.	1.5	9
14	Investigations of the Solid Electrolyte Interphase Using X-Ray Photoelectron Spectroscopy In situ Experiment on the Lithium-Based Solid Electrolyte LiPSON. Physica Status Solidi (B): Basic Research, 2020, 257, 1900336.	1.5	9
15	Optimizing the Stoichiometry of Ga <sub>2</sub> O <sub>3</sub> Grown by RF-Magnetron Sputter Deposition by Correlating Optical Properties and Growth Parameters. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900385.	1.8	8
16	Electrochemical and Optical Properties of Lithium Ion Conducting LiPSON Solid Electrolyte Films. Physica Status Solidi (B): Basic Research, 2019, 256, 1900047.	1.5	8
17	Controlled thin-film deposition of $\text{Ga}_2\text{O}_3$ by ion-beam sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	6
18	Determining the band alignment of copper-oxide gallium-oxide heterostructures. Journal of Applied Physics, 2021, 129, .	2.5	6

#	ARTICLE	IF	CITATIONS
19	Deposition of tin oxides by Ion-Beam-Sputtering. Materials Research Society Symposia Proceedings, 2012, 1494, 153-158.	0.1	4
20	On the Growth of Stannic Oxide by Ion Beam Sputter Deposition (IBSD). Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700623.	1.8	4
21	Progress in Sputter Growth of $\text{In}_2\text{O}_3$ by Applying Pulsed-Mode Operation. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1901009.	1.8	4
22	Embedding Quaternary $\text{V}_{1-x}\text{Sr}_x\text{W}_y\text{O}_2$ into Multilayer Systems to Enhance Its Thermo-chromic Properties for Smart Glass Applications. ACS Applied Electronic Materials, 2022, 4, 513-520.	4.3	4
23	Phase Control of Multivalent Vanadium Oxides $\text{VO}_x$ by Ion-Beam Sputter-Deposition. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, .	1.8	4
24	Investigation of Sputter-Deposited Thin Films of Lithium Phosphorous Sulfuric Oxynitride (LiPSON) as Solid Electrolyte for Electrochromic Devices. Physica Status Solidi (B): Basic Research, 2021, 258, 2100032.	1.5	3
25	Advantageous optical characteristics of tantalum vanadium oxide as counter electrode in electrochromic devices. Journal of Materials Science, 2022, 57, 12810-12823.	3.7	3
26	Analysis of the optical parameters of amorphous ternary oxides $\text{Sn}_{1-x}\text{Zn}_x\text{O}$ and $\text{Sn}_{1-x}\text{Ni}_x\text{O}$ processed by combinatorial ion-beam sputter deposition. Journal of Applied Physics, 2018, 124, 155701.	2.5	2
27	Assessing the growth window of stannous oxide by ion beam sputter deposition (IBSD). Journal of Crystal Growth, 2018, 498, 17-24.	1.5	2
28	Band alignment of $\text{Al}_x\text{Ga}_{1-x}\text{N}/\text{Cu}_2\text{O}$ heterojunctions in dependence on alloy composition $x$ and its effect on the photovoltaic properties. Journal of Applied Physics, 2018, 123, .	2.5	2
29	Structural and Electrochemical Characterization of Radio Frequency Magnetron-Sputtered $\text{LiCoO}_2$ Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000382.	1.8	2
30	Assessing the benefits of customizable ion-beam profiles for homogeneously coating or treating the surfaces of non-planar substrates. Review of Scientific Instruments, 2020, 91, 013905.	1.3	2
31	Thermally Switchable Terahertz Metasurface Devices. , 2019, , .		1
32	Assessing a growth anomaly in ion-beam sputtered non-stoichiometric $\text{NiO}_x$ . Journal of Applied Physics, 2019, 126, .	2.5	0