

# 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	Embedding Quaternary V <sub>1-x</sub> Sr <sub>x</sub> WO <sub>2</sub> into Multilayer Systems to Enhance Its Thermo-chromic Properties for Smart Glass Applications. ACS Applied Electronic Materials, 2022, 4, 513-520.	4.3	4
2	Phase Control of Multivalent Vanadium Oxides VO <sub>x</sub> by Ion-Beam Sputter-Deposition. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, .	1.8	4
3	Advantageous optical characteristics of tantalum vanadium oxide as counter electrode in electrochromic devices. Journal of Materials Science, 2022, 57, 12810-12823.	3.7	3
4	Electrochromic switching of tungsten oxide films grown by reactive ion-beam sputter deposition. Journal of Materials Science, 2021, 56, 615-628.	3.7	21
5	Determining the band alignment of copper-oxide gallium-oxide heterostructures. Journal of Applied Physics, 2021, 129, .	2.5	6
6	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
7	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
8	Structural and Electrochemical Characterization of Radio Frequency Magnetron-Sputtered LiCoO <sub>2</sub> Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000382.	1.8	2
9	Controlled thin-film deposition of $\hat{I}_{\pm}$ or $\hat{I}^2$ Ga <sub>2</sub> O <sub>3</sub> by ion-beam sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	6
10	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
11	Progress in Sputter Growth of $\hat{I}^2$ Ga <sub>2</sub> O <sub>3</sub> by Applying Pulsed-Mode Operation. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1901009.	1.8	4
12	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
13	Assessing a growth anomaly in ion-beam sputtered non-stoichiometric NiO. Journal of Applied Physics, 2019, 126, .	2.5	0
14	Thermally Switchable Terahertz Metasurface Devices. , 2019, , .		1
15	Electrochemical and Optical Properties of Lithium Ion Conducting LiPSON Solid Electrolyte Films. Physica Status Solidi (B): Basic Research, 2019, 256, 1900047.	1.5	8
16	Controlling the p-type conductivity of SnO by doping with nitrogen and hydrogen. Journal of Applied Physics, 2019, 125, .	2.5	14
17	Materials processing using radio-frequency ion-sources: Ion-beam sputter-deposition and surface treatment. Review of Scientific Instruments, 2019, 90, 023901.	1.3	27
18	Electron paramagnetic resonance signatures of Co <sub>2+</sub> and Cu <sub>2+</sub> in $\hat{I}^2$ -Ga <sub>2</sub> O <sub>3</sub> . Applied Physics Letters, 2019, 115, .	3.3	11

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19	Thermally switchable terahertz wavefront metasurface modulators based on the insulator-to-metal transition of vanadium dioxide. <i>Optics Express</i> , 2019, 27, 20347.	3.4	44
20	On the Growth of Stannic Oxide by Ion Beam Sputter Deposition (IBSD). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700623.	1.8	4
21	Impact of Composition $x$ on the Refractive Index of $\text{Ni}_x\text{O}$ . <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700463.	1.5	9
22	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. <i>Journal of Applied Physics</i> , 2018, 124, 155701.	2.5	2
23	Assessing the growth window of stannous oxide by ion beam sputter deposition (IBSD). <i>Journal of Crystal Growth</i> , 2018, 498, 17-24.	1.5	2
24	Band alignment of $\text{AlGaInCu}_2\text{O}$ heterojunctions in dependence on alloy composition $x$ and its effect on the photovoltaic properties. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	2
25	$\text{NiO}$ films on sapphire as potential antiferromagnetic pinning layers. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	16
26	Raman studies of the intermediate tin-oxide phase. <i>Physical Review Materials</i> , 2017, 1, .	2.4	54
27	Synthesis of tin oxides $\text{SnO}_{2-x}$ in the entire composition range ( $x = 0$ to 1) by ion-beam sputter-deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 326-330.	2.4	23
28	Influence of doping with alkaline earth metals on the optical properties of thermochromic $\text{VO}_2$ . <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	61
29	Polycrystalline $\text{SnO}_2$ films grown by chemical vapor deposition on quartz glass. <i>Vacuum</i> , 2015, 122, 347-352.	3.5	47
30	Stannic oxide thin film growth via ion-beam-sputtering. <i>Thin Solid Films</i> , 2014, 553, 26-29.	1.8	11
31	Deposition of tin oxides by Ion-Beam-Sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1494, 153-158.	0.1	4
32	Binary copper oxide semiconductors: From materials towards devices. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1487-1509.	1.5	547