

# Ralf BrÄ¼ning

## List of Publications by Year in descending order

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43  
papers

853  
citations

516710

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477307

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all docs

43  
docs citations

43  
times ranked

1140  
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties of an electroless copper process as a function of nickel and cyanide ion concentrations. Journal of Applied Electrochemistry, 2021, 51, 795-802.	2.9	4
2	Electrochromic and colorimetric properties of anodic NiO thin films: Uncovering electrochromic mechanism of NiO. Electrochimica Acta, 2020, 335, 135648.	5.2	37
3	Molecular dynamics simulations of amorphous Ni-P alloy formation by rapid quenching and atomic deposition. Journal of Physics Condensed Matter, 2020, 32, 154001.	1.8	3
4	Microstructure of combined electroless and galvanic deposits on roll annealed copper foils and copper single crystals. Thin Solid Films, 2020, 714, 138366.	1.8	3
5	In-Situ Stress Determination of Electroless Cu on PCB-Relevant Substrates. , 2018, , .		0
6	Nickel dependence of hydrogen generation, hydrogen co-deposition and film stress in an electroless copper process. Thin Solid Films, 2018, 666, 76-84.	1.8	14
7	The effect of Ni on the kinetics of electroless Cu film deposition. Thin Solid Films, 2017, 626, 131-139.	1.8	16
8	Crystal growth patterns in DC and pulsed plated galvanic copper films on (1 1 1), (1 0 0) and (1 1 0) copper surfaces. Journal of Crystal Growth, 2017, 478, 220-228.	1.5	16
9	Subzero Temperature Dip-Coating of Sol-Gel Vanadium Pentoxide: Effect of the Deposition Temperature on the Film Structure, Morphology, and Electrochromic Properties. Journal of Nanomaterials, 2016, 2016, 1-10.	2.7	3
10	Time Evolution of Stress and Microstructure in Electroplated Copper Films. Electrochimica Acta, 2016, 196, 479-486.	5.2	10
11	A hierarchically porous anatase TiO <sub>2</sub> coated-WO <sub>3</sub> 2D IO bilayer film and its photochromic properties. Chemical Communications, 2016, 52, 892-895.	4.1	23
12	Properties of electroless Cu films optimized for horizontal plating as a function of deposit thickness. Microelectronic Engineering, 2015, 140, 38-46.	2.4	21
13	Electrochromic and electrical properties of layered and tubular vanadium pentoxide thin films. , 2015, , .		1
14	The Impact of Hydrogen Gas Evolution on Blister Formation in Electroless Cu Films. Journal of Microelectronics and Electronic Packaging, 2015, 12, 86-91.	0.7	9
15	Stress of electroless copper deposits on insulating and metal substrates. Thin Solid Films, 2014, 565, 136-142.	1.8	14
16	Stress and Strain Evolution in Electroless Copper Films Evaluated with X-ray Diffraction and Substrate Curvature. Journal of the Electrochemical Society, 2013, 160, D226-D232.	2.9	7
17	Analysis of stress/strain in Electroless Copper Films. International Symposium on Microelectronics, 2013, 2013, 000026-000030.	0.0	5
18	Combining X-Ray Diffraction and Substrate Deflection Analysis to Understand Internal Stress in Electroless Copper Films. Materials Research Society Symposia Proceedings, 2012, 1529, 1.	0.1	1

#	ARTICLE	IF	CITATIONS
19	Strain Analysis of Copper Films During Wet-Chemical Deposition.. Materials Research Society Symposia Proceedings, 2012, 1400, 48.	0.1	3
20	The effect of nickel on the strain evolution in chemical copper films. Thin Solid Films, 2012, 520, 6935-6941.	1.8	15
21	Porous orthorhombic tungsten oxide thin films: synthesis, characterization, and application in electrochromic and photochromic devices. Journal of Materials Chemistry, 2011, 21, 3940.	6.7	89
22	Strain in electroless copper films monitored by X-ray diffraction during and after deposition and its dependence on bath chemistry. Thin Solid Films, 2011, 519, 4377-4383.	1.8	16
23	X-Ray Diffraction and Micro-Raman Study of Structural Transformations in $B_{2O_3}$ ( $H_2O$ ) Glasses and Liquids. Journal of the American Ceramic Society, 2010, 93, 3745-3751.	3.8	2
24	Synthesis of Hexagonal, Monoclinic and Orthorhombic Tungsten Oxide Thin Films and Construction of Transmissive Electrochromic Devices. , 2010, , .		0
25	Micro-Raman spectroscopic characterization of a tunable electrochromic device for application in smart windows. Journal of Raman Spectroscopy, 2009, 40, 92-100.	2.5	36
26	Construction and characterization of tunable meso-/macroporous tungsten oxide-based transmissive electrochromic devices. Journal of Materials Science, 2009, 44, 6608-6616.	3.7	11
27	Glass transitions in one-, two-, three-, and four-dimensional binary Lennard-Jones systems. Journal of Physics Condensed Matter, 2009, 21, 035117.	1.8	70
28	Hexagonal Tungsten Oxide Based Electrochromic Devices: Spectroscopic Evidence for the Li Ion Occupancy of Four-Coordinated Square Windows. Chemistry of Materials, 2009, 21, 1381-1389.	6.7	133
29	Density fluctuations in oxide glasses investigated by small-angle X-ray scattering. Journal of Applied Crystallography, 2007, 40, s512-s516.	4.5	18
30	Performance and Stability of Soft Magnetic Elements for Electronic Article Surveillance. IEEE Transactions on Magnetics, 2007, 43, 1875-1879.	2.1	0
31	Crystallization process and electro-optical properties of $In_2O_3$ and ITO thin films. Journal of Materials Science, 2006, 41, 7096-7102.	3.7	50
32	The Structure of a Molybdenum Disulfide Intercalation Compound. Materials Research Society Symposia Proceedings, 2004, 847, 490.	0.1	0
33	Novel intercalation compound of poly[oligo(ethylene glycol)-oxalate in molybdenum disulfide. Journal of Materials Science Letters, 2003, 22, 429-431.	0.5	5
34	Novel nanocomposite material consisting of poly[oxymethylene-(oxyethylene)] and molybdenum disulfide. Materials Chemistry and Physics, 2003, 82, 316-320.	4.0	31
35	New poly[bis-(methoxyethoxyethoxy)phosphazene]- $MoS_2$ nanocomposite. Solid State Ionics, 2003, 158, 205-209.	2.7	10
36	On the glass transition in vitreous silica by differential thermal analysis measurements. Journal of Non-Crystalline Solids, 2003, 330, 13-22.	3.1	27

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37	Intercalation of tetraazamacrocycles into molybdenum disulfide. Journal of Materials Chemistry, 2003, 13, 44-49.	6.7	29
38	Amorphization of crystalline orthoboric acid on a vitreous B <sub>2</sub> O <sub>3</sub> substrate. Journal of Materials Research, 2002, 17, 3098-3104.	2.6	13
39	Reverse Monte Carlo study of structural relaxation in vitreous selenium. Journal of Applied Physics, 2001, 89, 3215-3222.	2.5	19
40	Intercalation of a pendant-arm tetraazamacrocycle into molybdenum disulfide. Chemical Communications, 2001, , 1598-1599.	4.1	23
41	A method to determine the kinetics of a supercooled liquid by temperature scanning measurements applied to (Li,Na)acetate and GeO <sub>2</sub> . Journal of Non-Crystalline Solids, 1999, 248, 183-193.	3.1	17
42	Fragility of glass-forming systems and the width of the glass transition. Journal of Non-Crystalline Solids, 1996, 205-207, 480-484.	3.1	46
43	Crystallization of near-eutectic Co-Zr alloys and the formation and fast decay of a bcc Co <sub>92</sub> Zr <sub>8</sub> solid solution. Journal of Non-Crystalline Solids, 1996, 205-207, 540-545.	3.1	3