

Ralf BrÄ¼ning

List of Publications by Year in descending order

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1140
citing authors

#	ARTICLE	IF	CITATIONS
1	Hexagonal Tungsten Oxide Based Electrochromic Devices: Spectroscopic Evidence for the Li Ion Occupancy of Four-Coordinated Square Windows. <i>Chemistry of Materials</i> , 2009, 21, 1381-1389.	6.7	133
2	Porous orthorhombic tungsten oxide thin films: synthesis, characterization, and application in electrochromic and photochromic devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 3940.	6.7	89
3	Glass transitions in one-, two-, three-, and four-dimensional binary Lennard-Jones systems. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 035117.	1.8	70
4	Crystallization process and electro-optical properties of In ₂ O ₃ and ITO thin films. <i>Journal of Materials Science</i> , 2006, 41, 7096-7102.	3.7	50
5	Fragility of glass-forming systems and the width of the glass transition. <i>Journal of Non-Crystalline Solids</i> , 1996, 205-207, 480-484.	3.1	46
6	Electrochromic and colorimetric properties of anodic NiO thin films: Uncovering electrochromic mechanism of NiO. <i>Electrochimica Acta</i> , 2020, 335, 135648.	5.2	37
7	Micro-Raman spectroscopic characterization of a tunable electrochromic device for application in smart windows. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 92-100.	2.5	36
8	Novel nanocomposite material consisting of poly[oxymethylene-(oxyethylene)] and molybdenum disulfide. <i>Materials Chemistry and Physics</i> , 2003, 82, 316-320.	4.0	31
9	Intercalation of tetraazamacrocycles into molybdenum disulfide. <i>Journal of Materials Chemistry</i> , 2003, 13, 44-49.	6.7	29
10	On the glass transition in vitreous silica by differential thermal analysis measurements. <i>Journal of Non-Crystalline Solids</i> , 2003, 330, 13-22.	3.1	27
11	Intercalation of a pendant-arm tetraazamacrocycle into molybdenum disulfide. <i>Chemical Communications</i> , 2001, , 1598-1599.	4.1	23
12	A hierarchically porous anatase TiO ₂ coated-WO ₃ 2D IO bilayer film and its photochromic properties. <i>Chemical Communications</i> , 2016, 52, 892-895.	4.1	23
13	Properties of electroless Cu films optimized for horizontal plating as a function of deposit thickness. <i>Microelectronic Engineering</i> , 2015, 140, 38-46.	2.4	21
14	Reverse Monte Carlo study of structural relaxation in vitreous selenium. <i>Journal of Applied Physics</i> , 2001, 89, 3215-3222.	2.5	19
15	Density fluctuations in oxide glasses investigated by small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2007, 40, s512-s516.	4.5	18
16	A method to determine the kinetics of a supercooled liquid by temperature scanning measurements applied to (Li,Na)acetate and GeO ₂ . <i>Journal of Non-Crystalline Solids</i> , 1999, 248, 183-193.	3.1	17
17	Strain in electroless copper films monitored by X-ray diffraction during and after deposition and its dependence on bath chemistry. <i>Thin Solid Films</i> , 2011, 519, 4377-4383.	1.8	16
18	The effect of Ni on the kinetics of electroless Cu film deposition. <i>Thin Solid Films</i> , 2017, 626, 131-139.	1.8	16

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19	Crystal growth patterns in DC and pulsed plated galvanic copper films on (1 1 1), (1 0 0) and (1 1 0) copper surfaces. <i>Journal of Crystal Growth</i> , 2017, 478, 220-228.	1.5	16
20	The effect of nickel on the strain evolution in chemical copper films. <i>Thin Solid Films</i> , 2012, 520, 6935-6941.	1.8	15
21	Stress of electroless copper deposits on insulating and metal substrates. <i>Thin Solid Films</i> , 2014, 565, 136-142.	1.8	14
22	Nickel dependence of hydrogen generation, hydrogen co-deposition and film stress in an electroless copper process. <i>Thin Solid Films</i> , 2018, 666, 76-84.	1.8	14
23	Amorphization of crystalline orthoboric acid on a vitreous B ₂ O ₃ substrate. <i>Journal of Materials Research</i> , 2002, 17, 3098-3104.	2.6	13
24	Construction and characterization of tunable meso-/macroporous tungsten oxide-based transmissive electrochromic devices. <i>Journal of Materials Science</i> , 2009, 44, 6608-6616.	3.7	11
25	New poly[bis-(methoxyethoxyethoxy)phosphazene]â€“MoS ₂ nanocomposite. <i>Solid State Ionics</i> , 2003, 158, 205-209.	2.7	10
26	Time Evolution of Stress and Microstructure in Electroplated Copper Films. <i>Electrochimica Acta</i> , 2016, 196, 479-486.	5.2	10
27	The Impact of Hydrogen Gas Evolution on Blister Formation in Electroless Cu Films. <i>Journal of Microelectronics and Electronic Packaging</i> , 2015, 12, 86-91.	0.7	9
28	Stress and Strain Evolution in Electroless Copper Films Evaluated with X-ray Diffraction and Substrate Curvature. <i>Journal of the Electrochemical Society</i> , 2013, 160, D226-D232.	2.9	7
29	Novel intercalation compound of poly[oligo(ethylene glycol)-oxalate in molybdenum disulfide. <i>Journal of Materials Science Letters</i> , 2003, 22, 429-431.	0.5	5
30	Analysis of stress/strain in Electroless Copper Films. <i>International Symposium on Microelectronics</i> , 2013, 2013, 000026-000030.	0.0	5
31	Properties of an electroless copper process as a function of nickel and cyanide ion concentrations. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 795-802.	2.9	4
32	Crystallization of near-eutectic Co-Zr alloys and the formation and fast decay of a bcc Co ₉₂ Zr ₈ solid solution. <i>Journal of Non-Crystalline Solids</i> , 1996, 205-207, 540-545.	3.1	3
33	Strain Analysis of Copper Films During Wet-Chemical Deposition.. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1400, 48.	0.1	3
34	Subzero Temperature Dip-Coating of Sol-Gel Vanadium Pentoxide: Effect of the Deposition Temperature on the Film Structure, Morphology, and Electrochromic Properties. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-10.	2.7	3
35	Molecular dynamics simulations of amorphous Niâ€“P alloy formation by rapid quenching and atomic deposition. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 154001.	1.8	3
36	Microstructure of combined electroless and galvanic deposits on roll annealed copper foils and copper single crystals. <i>Thin Solid Films</i> , 2020, 714, 138366.	1.8	3

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37	X-Ray Diffraction and Micro-Raman Study of Structural Transformations in $(\text{B}_{20}\text{O}_3)_x(\text{H}_2\text{O})_x$ Glasses and Liquids. Journal of the American Ceramic Society, 2010, 93, 3745-3751.	3.8	2
38	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
39	Electrochromic and electrical properties of layered and tubular vanadium pentoxide thin films. , 2015, , .		1
40	The Structure of a Molybdenum Disulfide Intercalation Compound. Materials Research Society Symposia Proceedings, 2004, 847, 490.	0.1	0
41	Performance and Stability of Soft Magnetic Elements for Electronic Article Surveillance. IEEE Transactions on Magnetism, 2007, 43, 1875-1879.	2.1	0
42	Synthesis of Hexagonal, Monoclinic and Orthorhombic Tungsten Oxide Thin Films and Construction of Transmissive Electrochromic Devices. , 2010, , .		0
43	In-Situ Stress Determination of Electroless Cu on PCB-Relevant Substrates. , 2018, , .		0