

Nathan Stein

List of Publications by Year in descending order

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63
papers

1,381
citations

331670

21
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361022

35
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63
all docs

63
docs citations

63
times ranked

1283
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights in the two-step synthesis of single crystalline Ag ₂ Te nanorods. <i>Materials Chemistry and Physics</i> , 2022, 289, 126487.	4.0	0
2	Effect of lithium salt precursors on the physical properties of ZnO-Li thin films. <i>Thin Solid Films</i> , 2021, 725, 138644.	1.8	1
3	Development of microdevices for the in-plane thermoelectric characterization of deposited films. <i>Journal of Materials Research and Technology</i> , 2021, 15, 1190-1200.	5.8	0
4	Influence of the electrolyte composition on the electrochemical dissolution behavior of forged Inconel 718. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 197-206.	2.9	7
5	Towards enhanced durability of electrochromic WO ₃ interfaced with liquid or ceramic sodium-based electrolytes. <i>Electrochimica Acta</i> , 2020, 360, 136931.	5.2	20
6	Enhanced dielectric and electrocaloric properties in lead-free rod-like BCZT ceramics. <i>Journal of Advanced Ceramics</i> , 2020, 9, 210-219.	17.4	45
7	Morphological and chemical dynamics upon electrochemical cyclic sodiation of electrochromic tungsten oxide coatings extracted by in situ ellipsometry. <i>Applied Optics</i> , 2020, 59, 3766.	1.8	6
8	Electrodeposition of Tin Selenide from Oxalate-Based Aqueous Solution. <i>Journal of the Electrochemical Society</i> , 2020, 167, 162502.	2.9	2
9	<i>In situ</i> spectroelectrochemical ellipsometry using super continuum white laser: Study of the anodization of magnesium alloy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, .	1.2	3
10	Lattice thermal conductivity of Bi ₂ Te ₃ and SnSe using Debye-Callaway and Monte Carlo phonon transport modeling: Application to nanofilms and nanowires. <i>Physical Review B</i> , 2019, 100, .	3.2	11
11	Pulse electrodeposition and characterization of Zn-Mn coatings deposited from additive-free chloride electrolytes. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 399-411.	2.9	12
12	Coloration mechanism of electrochromic Na _x WO ₃ thin films. <i>Optics Letters</i> , 2019, 44, 1104.	3.3	13
13	Synthesis of Te-Bi core-shell nanowires by two-step electrodeposition in ionic liquids. <i>Electrochemistry Communications</i> , 2018, 86, 30-33.	4.7	5
14	Microstructure and thermoelectric properties of p-type bismuth antimony telluride nanowires synthesized by template electrodeposition in polycarbonate membranes. <i>Electrochimica Acta</i> , 2018, 279, 258-268.	5.2	12
15	Synthesis of bismuth telluride nanotubes and their simulated thermal properties. <i>Superlattices and Microstructures</i> , 2018, 122, 587-595.	3.1	8
16	Oxide Growth Mechanism on Mg AZ91 Alloy by Anodizing: Combination of Electrochemical and Ellipsometric In-Situ Measurements. <i>Journal of the Electrochemical Society</i> , 2017, 164, C1059-C1066.	2.9	8
17	Tuning the morphology of Te one-dimensional nanostructures by template-free electrochemical deposition in an ionic liquid. <i>Electrochimica Acta</i> , 2016, 197, 300-306.	5.2	15
18	Electrodeposition of high aspect ratio single crystalline tellurium nanowires from piperidinium-based ionic liquid. <i>Electrochimica Acta</i> , 2016, 222, 528-534.	5.2	15

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19	Electrodeposition, microstructural characterization and anticorrosive properties of Zn-Mn alloy coatings from acidic chloride electrolyte containing 4-hydroxybenzaldehyde and ammonium thiocyanate. <i>Surface and Coatings Technology</i> , 2016, 298, 73-82.	4.8	15
20	A review of electroplating for V^{VI} thermoelectric films: from synthesis to device integration. <i>Journal of Materials Research</i> , 2015, 30, 2518-2543.	2.6	35
21	Individual thermoelectric properties of electrodeposited bismuth telluride nanowires in polycarbonate membranes. <i>Electrochimica Acta</i> , 2015, 161, 403-407.	5.2	14
22	Thermal conductivity of Bi_2Te_3 nanowires and nanotubes. , 2015, , .		0
23	Growth Mechanism during the Early Stages of electrodeposition of Bismuth telluride films. <i>Electrochimica Acta</i> , 2015, 174, 376-383.	5.2	22
24	Electrochemical performances of hydrothermal tannin-based carbons doped with nitrogen. <i>Industrial Crops and Products</i> , 2015, 70, 332-340.	5.2	38
25	Influence of the aluminum incorporation on the properties of electrodeposited ZnO thin films. <i>Surface and Coatings Technology</i> , 2015, 270, 236-242.	4.8	12
26	Hydrothermally treated aminated tannin as precursor of N-doped carbon gels for supercapacitors. <i>Carbon</i> , 2015, 90, 63-74.	10.3	67
27	Thermal conductivity of Bi_2Te_3 tilted nanowires, a molecular dynamics study. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	9
28	Design of a real-time spectroscopic rotating compensator ellipsometer without systematic errors. <i>Thin Solid Films</i> , 2014, 571, 509-512.	1.8	7
29	Microstructure modifications and associated hardness and corrosion improvements in the AISI 420 martensitic stainless steel treated by high current pulsed electron beam (HCPEB). <i>Surface and Coatings Technology</i> , 2014, 259, 737-745.	4.8	61
30	Influence of tartaric acid on diffusion coefficients of Bi^{III} , Sb^{III} , Te^{IV} in aqueous medium: Application of electrodeposition of thermoelectric films. <i>Journal of Electroanalytical Chemistry</i> , 2014, 724, 111-117.	3.8	22
31	Electrodeposition of stoichiometric bismuth telluride Bi_2Te_3 using a piperidinium ionic liquid binary mixture. <i>Electrochimica Acta</i> , 2014, 137, 586-594.	5.2	18
32	Study of the potential driven changes in a collagen film self-assembled on a polycrystalline gold electrode surface. <i>Journal of Electroanalytical Chemistry</i> , 2013, 706, 140-148.	3.8	13
33	Template-free electrodeposition of tellurium nanostructures in a room-temperature ionic liquid. <i>Electrochemistry Communications</i> , 2012, 24, 57-60.	4.7	36
34	Electrodeposition of bismuth telluride nanowires with controlled composition in polycarbonate membranes. <i>Electrochimica Acta</i> , 2012, 69, 30-37.	5.2	37
35	Pore structure and electrochemical performances of tannin-based carbon cryogels. <i>Biomass and Bioenergy</i> , 2012, 39, 274-282.	5.7	58
36	Electrochemical determination of the diffusion coefficient of cations into Chevrel phase-based electrochemical transfer junction by potential step chronoamperometry and impedance spectroscopy. <i>Electrochimica Acta</i> , 2011, 56, 2740-2747.	5.2	10

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37	Electrodeposition and Characterization of Bismuth Telluride Nanowires. Journal of Electronic Materials, 2010, 39, 2043-2048.	2.2	18
38	Structural and spectroscopic ellipsometry characterization for electrodeposited ZnO growth at different hydrogen peroxide concentration. Thin Solid Films, 2010, 518, 4150-4155.	1.8	16
39	Characterizations of bismuth telluride films from Mott-Schottky plot and spectroscopic ellipsometry. Surface and Interface Analysis, 2008, 40, 593-596.	1.8	17
40	Analysis of carrier parameters and bandgap of electroplated Bi ₂ Te ₃ films by infrared spectroscopic ellipsometry. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 1190-1193.	0.8	3
41	Influence of pulsed electrodeposition on stoichiometry and thermoelectric properties of bismuth telluride films. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2340-2344.	1.8	23
42	Optical constants of electroplated Bi ₂ Te ₃ films by Mueller matrix spectroscopic ellipsometry. Thin Solid Films, 2008, 516, 2922-2927.	1.8	4
43	Room-temperature ionic liquid for lanthanum electrodeposition. Electrochemistry Communications, 2008, 10, 1661-1664.	4.7	78
44	Texture modification, grain refinement and improved hardness/corrosion balance of a FeAl alloy by pulsed electron beam surface treatment in the "heating mode". Scripta Materialia, 2008, 58, 1058-1061.	5.2	108
45	Real time in situ ellipsometric and gravimetric monitoring for electrochemistry experiments. Review of Scientific Instruments, 2007, 78, 064101.	1.3	15
46	In situ analysis of bismuth telluride electrodeposition using combined spectroscopic ellipsometry and electrochemical quartz crystal microbalance. Electrochimica Acta, 2007, 52, 4760-4766.	5.2	18
47	Characterisation of electroplated Bi ₂ (Te _{1-x} Se _x) ₃ alloys. Journal of Solid State Electrochemistry, 2007, 12, 95-101.	2.5	28
48	Optical and thermoelectric characterizations of electroplated n-Bi ₂ (Te _{0.9} Se _{0.1}) ₃ . Journal of Physics and Chemistry of Solids, 2007, 68, 1902-1907.	4.0	23
49	Grain Refinement and Improved Hardness/Corrosion Balance by Pulsed Electron Beam Surface Treatment of a FeAl Alloy. , 2007, , .		0
50	Characterization of Bi ₂ Te ₃ Thin Films Grown by Pulse Electroplating. , 2007, , .		0
51	Pulsed electrodeposition of (Bi _{1-x} Sb _x) ₂ Te ₃ thermoelectric thin films. Journal of Applied Electrochemistry, 2006, 36, 449-454.	2.9	58
52	Galvanostatic and potentiostatic deposition of bismuth telluride films from nitric acid solution: effect of chemical and electrochemical parameters. Journal of Crystal Growth, 2005, 277, 274-283.	1.5	69
53	Comparative study of the electrochemical preparation of Bi ₂ Te ₃ , Sb ₂ Te ₃ , and (Bi _x Sb _{1-x}) ₂ Te ₃ films. Thin Solid Films, 2005, 483, 44-49.	1.8	78
54	Electroless method for Bi ₂ Te ₃ film deposition. Materials Letters, 2005, 59, 746-748.	2.6	11

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55	Infrared and Visible Dielectric Function of Electroplated Bi _{2-x} Te _{3-x} Films Determined by Spectroscopic Ellipsometry. Journal of the Electrochemical Society, 2005, 152, G772.	2.9	13
56	Caractérisation par ellipsométrie spectroscopique de films minces de tellure de bismuth obtenus par voie électrochimique. European Physical Journal Special Topics, 2004, 122, 87-92.	0.2	4
57	In situ ellipsometric and electrochemical monitoring of the oxidation of a Pb-Ca-Sn alloy used in the lead acid batteries. Thin Solid Films, 2004, 455-456, 735-741.	1.8	12
58	Oxidation of chromia forming molybdenum-tungsten based alloys. Journal of Materials Science, 2003, 38, 2063-2072.	3.7	5
59	Title is missing!. Journal of Applied Electrochemistry, 2003, 33, 23-27.	2.9	37
60	In situ spectroscopic ellipsometric study of porous alumina film dissolution. Electrochimica Acta, 2002, 47, 1811-1817.	5.2	33
61	In-situ ellipsometric study of copper passivation by copper heptanoate through electrochemical oxidation. Electrochimica Acta, 1998, 43, 3227-3234.	5.2	12
62	In-situ ellipsometric study of lead sulfate film electroformation on lead in a sulfuric acid solution. Electrochimica Acta, 1998, 44, 445-454.	5.2	23
63	Systematic errors in fixed polarizer, rotating polarizer, sample, fixed analyzer spectroscopic ellipsometry. Thin Solid Films, 1998, 313-314, 73-78.	1.8	18