Gunnar A Niklasson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

394 papers	13,915 citations	57 h-index	101 g-index
411 ext. papers	15,244 ext. citations	3.9 avg, IF	6.76 L-index

#	Paper	IF	Citations
394	Zero Thermal Noise in Resistors at Zero Temperature **2022**, 139-145		
393	Multicolored absorbing nickel oxide films based on anodic electrochromism and structural coloration. *Journal of Applied Physics*, **2021**, 129, 123105	2.5	2
392	An Electrochemical Impedance Study of Alkaline Water Splitting Using Fe Doped NiO Nanosheets. *Physchem*, **2021**, 1, 69-81		1
391	Effective backscattering and absorption coefficients of light diffusing materials retrieved from reflectance and transmittance spectra of diffuse radiation. *Journal of Modern Optics*, **2021**, 68, 605-623	1.1	1
390	Electrochromic tungsten oxide films prepared by sputtering: Optimizing cycling durability by judicious choice of deposition parameters. *Electrochimica Acta*, **2021**, 367, 137233	6.7	7
389	Electrochromic solar water splitting using a cathodic WO3 electrocatalyst. *Nano Energy*, **2021**, 81, 105620	17.1	6
388	Charge coloration dynamics of electrochromic amorphous tungsten oxide studied by simultaneous electrochemical and color impedance measurements. *Journal of Applied Physics*, **2021**, 129, 053103	2.5	5
387	Impedance Spectroscopy of Electrochromic Hydrous Tungsten Oxide Films. *Electronic Materials*, **2021**, 2, 312-323	0.8	
386	High-Contrast Switching of Plasmonic Structural Colors: Inorganic versus Organic Electrochromism. *ACS Photonics*, **2020**, 7, 1762-1772	6.3	17
385	Electrochromism of nitrogen-doped tungsten oxide thin films. *Materials Today: Proceedings*, **2020**, 33, 2434-2439	1.4	3
384	Light scattering materials for energy-related applications: Determination of absorption and scattering coefficients. *Materials Today: Proceedings*, **2020**, 33, 2474-2480	1.4	2
383	Electrochromism of Wth oxide thin films: Implications for cycling durability. *Thin Solid Films*, **2020**, 697, 137830	2.2	3
382	Cycling Durability of Electrochromic W-Ti Oxide Thin Films: Optical Transmittance Data Signal Dual Degradation Modes. *Journal of the Electrochemical Society*, **2020**, 167, 026514	3.9	3
381	Differential coloration efficiency of electrochromic amorphous tungsten oxide as a function of intercalation level: Comparison between theory and experiment. *Journal of Applied Physics*, **2020**, 127, 205101	2.5	7
380	Potentiostatic rejuvenation of electrochromic WO3 thin films: Exploring the effect of polyethylene oxide in LiClO4-Propylene carbonate electrolytes. *Solar Energy Materials and Solar Cells*, **2020**, 218, 110767	6.4	3
379	Electrochromism in Ni Oxide Thin Films Made by Advanced Gas Deposition and Sputtering: A Comparative Study Demonstrating the Significance of Surface Effects. *Journal of the Electrochemical Society*, **2020**, 167, 116519	3.9	2
378	Extraction of Backscattering and Absorption Coefficients of Magnetite Nanosphere Composites from Light-Scattering Measurements: Implications for Optomagnetic Sensing. *ACS Applied Nano Materials*, **2020**, 3, 11172-11183	5.6	1

377	Coloration of tungsten oxide electrochromic thin films at high bias potentials and low intercalation levels. *Materials Letters: X*, **2020**, 7, 100048	0.5	2
376	Scattering and absorption cross sections of light diffusing materials retrieved from reflectance and transmittance spectra of collimated radiation. *Journal of Modern Optics*, **2020**, 67, 974-991	1.1	3
375	Impedance Spectroscopy Modeling of Nickel–Molybdenum Alloys on Porous and Flat Substrates for Applications in Water Splitting. *Journal of Physical Chemistry C*, **2019**, 123, 23890-23897	3.8	15
374	Electrochromic WO thin films attain unprecedented durability by potentiostatic pretreatment. *Journal of Materials Chemistry A*, **2019**, 7, 2908-2918	13	37
373	Characterization of nanocrystalline-nanoporous nickel oxide thin films prepared by reactive advanced gas deposition. *Materials Chemistry and Physics*, **2019**, 227, 98-104	4.4	5
372	Direct observation of active catalyst surface phases and the effect of dynamic self-optimization in NiFe-layered double hydroxides for alkaline water splitting. *Energy and Environmental Science*, **2019**, 12, 572-581	35.4	240
371	A novel phase function describing light scattering of layers containing colloidal nanospheres. *Nanoscale*, **2019**, 11, 7404-7413	7.7	6
370	Optical, charge transport and magnetic properties of palladium retrieved from photometric measurements: approaching the quantum mechanics background. *Physica Scripta*, **2019**, 94, 055101	2.6	1
369	Potentiostatically pretreated electrochromic tungsten oxide films with enhanced durability: Electrochemical processes at interfaces of indium–tin oxide. *Thin Solid Films*, **2019**, 682, 163-168	2.2	6
368	Setup for simultaneous electrochemical and color impedance measurements of electrochromic films: Theory, assessment, and test measurement. *Review of Scientific Instruments*, **2019**, 90, 085103	1.7	5
367	Synergistic TiO2/VO2 Window Coating with Thermochromism, Enhanced Luminous Transmittance, and Photocatalytic Activity. *Joule*, **2019**, 3, 2457-2471	27.8	21
366	Electrochromism of W–Ti Oxide Thin Films: Cycling Durability, Potentiostatic Rejuvenation, and Modelling of Electrochemical Degradation. *Journal of the Electrochemical Society*, **2019**, 166, H795-H801	3.9	6
365	Inversion of two-flux and four-flux radiative transfer models for determining scattering and absorption coefficients for a suspended particle device. *Applied Optics*, **2019**, 58, 8871-8881	1.7	3
364	Impedance spectroscopy of water splitting reactions on nanostructured metal-based catalysts. *IOP Conference Series: Materials Science and Engineering*, **2019**, 503, 012005	0.4	1
363	Advances in electrochromic device technology: Multiple roads towards superior durability. *Surface and Coatings Technology*, **2019**, 357, 619-625	4.4	26
362	Electrochemical pretreatment of electrochromic WO3 films gives greatly improved cycling durability. *Thin Solid Films*, **2018**, 653, 1-3	2.2	13
361	Solar energy materials for thermal applications: A primer. *Solar Energy Materials and Solar Cells*, **2018**, 180, 213-226	6.4	34
360	Applications of Impedance Spectroscopy **2018**, 175-478		10

359	Spectral Selective Solar Light Enhanced Photocatalysis: TiO2/TiAlN Bilayer Films. *Topics in Catalysis*, **2018**, 61, 1607-1614	2.3	3
358	Cation-/Anion-Based Electrochemical Degradation and Rejuvenation of Electrochromic Nickel Oxide Thin Films. *ChemElectroChem*, **2018**, 5, 3548-3556	4.3	5
357	Electrochromic materials and devices for energy efficiency and human comfort in buildings: A critical review. *Electrochimica Acta*, **2018**, 259, 1170-1182	6.7	230
356	Electrochromics on a roll: Web-coating and lamination for smart windows. *Surface and Coatings Technology*, **2018**, 336, 133-138	4.4	48
355	Modeling of Electronic Properties of Amorphous Oxides **2018**, 319-331		
354	General Method for Determining Light Scattering and Absorption of Nanoparticle Composites. *Advanced Optical Materials*, **2018**, 7, 1801315	8.1	7
353	Electrochromic W1⊠TixMoyO3 Thin Films Made by Sputter Deposition: Large Optical Modulation, Good Cycling Durability, and Approximate Color Neutrality. *Chemistry of Materials*, **2017**, 29, 2246-2253	9.6	38
352	Galvanostatic Rejuvenation of Electrochromic WO Thin Films: Ion Trapping and Detrapping Observed by Optical Measurements and by Time-of-Flight Secondary Ion Mass Spectrometry. *ACS Applied Materials & Interfaces*, **2017**, 9, 16995-17001	9.5	35
351	The Importance of Oxygen Vacancies in Nanocrystalline WO3⊠ Thin Films Prepared by DC Magnetron Sputtering for Achieving High Photoelectrochemical Efficiency. *Journal of Physical Chemistry C*, **2017**, 121, 7412-7420	3.8	28
350	Degradation Dynamics for Electrochromic WO Films under Extended Charge Insertion and Extraction: Unveiling Physicochemical Mechanisms. *ACS Applied Materials & Interfaces*, **2017**, 9, 12872-12877	9.5	40
349	Thermochromic Oxide-Based Thin Films and Nanoparticle Composites for Energy-Efficient Glazings. *Buildings*, **2017**, 7, 3	3.2	24
348	Disentangling the intricate atomic short-range order and electronic properties in amorphous transition metal oxides. *Scientific Reports*, **2017**, 7, 2044	4.9	15
347	(Invited) Durability of Electrochromic Films: Aging Kinetics and Rejuvenation. *ECS Transactions*, **2017**, 77, 1659-1669	1	1
346	Electrochemical Rejuvenation of Anodically Coloring Electrochromic Nickel Oxide Thin Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 42420-42424	9.5	43
345	Controlled crystal growth orientation and surface charge effects in self-assembled nickel oxide nanoflakes and their activity for the oxygen evolution reaction. *International Journal of Hydrogen Energy*, **2017**, 42, 28397-28407	6.7	25
344	Information, Noise, and Energy Dissipation: Laws, Limits, and Applications. *Advances in Atom and Single Molecule Machines*, **2017**, 27-44	0	
343	Anomalous diffusion of ions in electrochromic tungsten oxide films. *Electrochimica Acta*, **2017**, 247, 252-257	6.7	12
342	Fluctuation-enhanced and conductometric gas sensing with nanocrystalline NiO thin films: A comparison. *Sensors and Actuators B: Chemical*, **2017**, 242, 132-139	8.5	6

341	Zero Thermal Noise in Resistors at Zero Temperature. *Fluctuation and Noise Letters*, **2016**, 15, 1640001	1.2	5
340	Electronic transitions induced by short-range structural order in amorphous TiO2. *Physical Review B* , **2016**, 94,	3.3	21
339	Thermochromic vanadium-dioxide-based thin films and nanoparticles: Survey of some buildings-related advances. *Journal of Physics: Conference Series*, **2016**, 764, 012002	0.3	3
338	Ion Trapping and Detrapping in Amorphous Tungsten Oxide Thin Films Observed by Real-Time Electro-Optical Monitoring. *Chemistry of Materials*, **2016**, 28, 4670-4676	9.6	48
337	Electrochromism in sputter deposited W1-yMoyO3thin films. *Journal of Physics: Conference Series*, **2016**, 682, 012005	0.3	7
336	Anodic Electrochromic Nickel Oxide Thin Films: Decay of Charge Density upon Extensive Electrochemical Cycling. *ChemElectroChem*, **2016**, 3, 266-275	4.3	34
335	Gas-phase photocatalytic activity of sputter-deposited anatase TiO2 films: Effect of <0 0 1> preferential orientation, surface temperature and humidity. *Journal of Catalysis*, **2016**, 335, 187-196	7.3	26
334	Thermochromic VO2 films by thermal oxidation of vanadium in SO2. *Solar Energy Materials and Solar Cells*, **2016**, 144, 713-716	6.4	21
333	Electrochromics for energy efficient buildings: Towards long-term durability and materials rejuvenation. *Surface and Coatings Technology*, **2016**, 290, 135-139	4.4	7
332	Thermochromics for Energy-Efficient Buildings: Thin Surface Coatings and Nanoparticle Composites **2016**, 71-96		4
331	Low-temperature synthesis of thermochromic vanadium dioxide thin films by reactive high power impulse magnetron sputtering. *Solar Energy Materials and Solar Cells*, **2016**, 149, 137-144	6.4	61
330	Eliminating Electrochromic Degradation in Amorphous TiO2 through Li-Ion Detrapping. *ACS Applied Materials & Interfaces*, **2016**, 8, 5777-82	9.5	39
329	Electrochromic Iridium-Containing Nickel Oxide Films with Excellent Electrochemical Cycling Performance. *Journal of the Electrochemical Society*, **2016**, 163, E7-E13	3.9	20
328	Sputter-Deposited Indium□in Oxide Thin Films for Acetaldehyde Gas Sensing. *Coatings*, **2016**, 6, 19	2.9	3
327	Zero-point term and quantum effects in the Johnson noise of resistors: a critical appraisal. *Journal of Statistical Mechanics: Theory and Experiment*, **2016**, 2016, 054006	1.9	7
326	Plasmonic thin films for application in improved chromogenic windows. *Journal of Physics: Conference Series*, **2016**, 682, 012003	0.3	4
325	Angle dependent light scattering by gold nanospheres. *Journal of Physics: Conference Series*, **2016**, 682, 012018	0.3	2
324	Electrochromic properties of W1□□NixTiyO3 thin films made by DC magnetron sputtering. *Thin Solid Films*, **2016**, 615, 292-299	2.2	7

323	Rejuvenation of degraded electrochromic MoO3 thin films made by DC magnetron sputtering: Preliminary results. *Journal of Physics: Conference Series*, **2016**, 764, 012009	0.3	9
322	Optical absorption and small-polaron hopping in oxygen deficient and lithium-ion-intercalated amorphous titanium oxide films. *Journal of Applied Physics*, **2016**, 119, 015701	2.5	12
321	Optical, structural and electrochromic properties of sputter- deposited W-Mo oxide thin films. *Journal of Physics: Conference Series*, **2016**, 764, 012010	0.3	1
320	Sputter deposited W1−xNixTiyO3thin films: Electrochromic properties and durability. *Journal of Physics: Conference Series*, **2016**, 682, 012021	0.3	4
319	Thermochromic light scattering from particulate VO2 layers. *Journal of Applied Physics*, **2016**, 119, 085302	2.5	5
318	Band gap states in nanocrystalline WO3 thin films studied by soft x-ray spectroscopy and optical spectrophotometry. *Journal of Physics Condensed Matter*, **2016**, 28, 475802	1.8	18
317	Electrochromics for energy efficient buildings: Towards long-term durability and materials rejuvenation. *Surface and Coatings Technology*, **2015**, 278, 121-125	4.4	21
316	Quantitative relation between photocatalytic activity and degree of <001> orientation for anatase TiO2 thin films. *Journal of Materials Chemistry A*, **2015**, 3, 17369-17375	13	14
315	Sputter deposition of thermochromic VO2 films on In2O3:Sn, SnO2, and glass: Structure and composition versus oxygen partial pressure. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2015**, 33, 031805	1.3	21
314	Strongly improved electrochemical cycling durability by adding iridium to electrochromic nickel oxide films. *ACS Applied Materials & Interfaces*, **2015**, 7, 9319-22	9.5	45
313	Eliminating degradation and uncovering ion-trapping dynamics in electrochromic WO3 thin films. *Nature Materials*, **2015**, 14, 996-1001	27	320
312	Electrochromism and small-polaron hopping in oxygen deficient and lithium intercalated amorphous tungsten oxide films. *Journal of Applied Physics*, **2015**, 118, 024901	2.5	44
311	Sustainable Rejuvenation of Electrochromic WO3 Films. *ACS Applied Materials & Interfaces*, **2015**, 7, 28100-4	9.5	55
310	Anodic Electrochromism for Energy-Efficient Windows: Cation/Anion-Based Surface Processes and Effects of Crystal Facets in Nickel Oxide Thin Films. *Advanced Functional Materials*, **2015**, 25, 3359-3370	15.6	81
309	Resistance noise at the metal–insulator transition in thermochromic VO2 films. *Journal of Applied Physics*, **2015**, 117, 025303	2.5	11
308	Galvanostatic Ion Detrapping Rejuvenates Oxide Thin Films. *ACS Applied Materials & Interfaces*, **2015**, 7, 26387-90	9.5	68
307	Electrochemical measurements of the electronic density of states. *Physica Scripta*, **2015**, 90, 094005	2.6	3
306	Non-Gaussian distributions of melodic intervals in music: The Lévy-stable approximation. *Europhysics Letters*, **2015**, 112, 40003	1.6	2

305	Simulation of the thickness dependence of the optical properties of suspended particle devices. *Solar Energy Materials and Solar Cells*, **2015**, 143, 613-622	6.4	37
304	Electrochromic iridium oxide films: Compatibility with propionic acid, potassium hydroxide, and lithium perchlorate in propylene carbonate. *Solar Energy Materials and Solar Cells*, **2014**, 120, 151-156	6.4	28
303	Thermochromic undoped and Mg-doped VO2 thin films and nanoparticles: Optical properties and performance limits for energy efficient windows. *Journal of Applied Physics*, **2014**, 115, 053513	2.5	41
302	Nanoparticles of TiO 2 and VO 2 in dielectric media: Conditions for low optical scattering, and comparison between effective medium and four-flux theories. *Solar Energy Materials and Solar Cells* , **2014**, 130, 132-137	6.4	54
301	Electrochromic nickel oxide films and their compatibility with potassium hydroxide and lithium perchlorate in propylene carbonate: Optical, electrochemical and stress-related properties. *Thin Solid Films*, **2014**, 565, 128-135	2.2	50
300	Lithium intercalation in sputter deposited antimony-doped tin oxide thin films: Evidence from electrochemical and optical measurements. *Journal of Applied Physics*, **2014**, 115, 153702	2.5	6
299	Electrochromism of DC magnetron-sputtered TiO2: Role of film thickness. *Applied Surface Science*, **2014**, 318, 24-27	6.7	14
298	Electrochromics and thermochromics for energy efficient fenestration: Functionalities based on nanoparticles of In2O3:Sn and VO2. *Thin Solid Films*, **2014**, 559, 2-8	2.2	28
297	Electrochromic devices with polymer electrolytes functionalized by SiO2 and In2O3:Sn nanoparticles: Rapid coloring/bleaching dynamics and strong near-infrared absorption. *Solar Energy Materials and Solar Cells*, **2014**, 126, 241-247	6.4	30
296	Structure and optical properties of electrochromic tungsten-containing nickel oxide films. *Solar Energy Materials and Solar Cells*, **2014**, 126, 248-259	6.4	27
295	Porous Nickel Oxide Film Sensor for Formaldehyde. *Journal of Physics: Conference Series*, **2014**, 559, 012012	0.3	4
294	Properties of bruggeman dielectric mixture expression **2014**,		2
293	Electrochromic performance of Ni oxide thin films intercalated with Li+ ions. *Journal of Physics: Conference Series*, **2014**, 559, 012006	0.3	2
292	Fabrication of photonic opal structures on different support materials by convective evaporation. *Journal of Physics: Conference Series*, **2014**, 559, 012007	0.3	1
291	Optical properties of nanocrystalline WO3 and WO3-x thin films prepared by DC magnetron sputtering. *Journal of Applied Physics*, **2014**, 115, 213510	2.5	65
290	Characterization of gold nanoparticle films: Rutherford backscattering spectroscopy, scanning electron microscopy with image analysis, and atomic force microscopy. *AIP Advances*, **2014**, 4, 107101	1.5	3
289	Preferential Orientation and Surface Oxidation Control in Reactively Sputter Deposited Nanocrystalline SnO2:Sb Films: Electrochemical and Optical Results. *ECS Journal of Solid State Science and Technology*, **2014**, 3, N151-N153	2	11
288	Electronic density-of-states of amorphous vanadium pentoxide films: Electrochemical data and density functional theory calculations. *Journal of Applied Physics*, **2014**, 115, 183701	2.5	14

287	Cyclic voltammetry on sputter-deposited films of electrochromic Ni oxide: Power-law decay of the charge density exchange. *Applied Physics Letters*, **2014**, 105, 163502	3.4	21
286	Electrochromic Properties of Li+-Intercalated Amorphous Tungsten (aWO3-x) and Titanium (aTiO2-x) Oxide Thin Films. *Journal of Physics: Conference Series*, **2014**, 559, 012004	0.3	7
285	Thermochromic vanadium oxide thin films: Electronic and optical properties. *Journal of Physics: Conference Series*, **2014**, 559, 012001	0.3	17
284	Durability of thermochromic VO2 thin films under heating and humidity: Effect of Al oxide top coatings. *Thin Solid Films*, **2014**, 562, 568-573	2.2	59
283	Electrochromism in sputter-deposited W□Ti oxide films: Durability enhancement due to Ti. *Solar Energy Materials and Solar Cells*, **2014**, 125, 184-189	6.4	69
282	Ion conduction mechanism of nanocomposite polymer electrolytes comprised of polyethyleneimine□lithium bis(trifluoromethylsulfonyl)imide and silica. *Electrochimica Acta*, **2014**, 119, 164-168	6.7	8
281	Durability of VO2-based thin films at elevated temperature: Towards thermochromic fenestration. *Journal of Physics: Conference Series*, **2014**, 559, 012005	0.3	5
280	Thin sputter deposited gold films on In2O3:Sn, SnO2:In, TiO2 and glass: Optical, electrical and structural effects. *Solar Energy Materials and Solar Cells*, **2013**, 117, 462-470	6.4	26
279	Electrochromism of DC magnetron sputtered TiO2 thin films: Role of deposition parameters. *Solar Energy Materials and Solar Cells*, **2013**, 115, 172-180	6.4	39
278	Low-frequency dielectric properties of three bentonites at different adsorbed water states. *Journal of Colloid and Interface Science*, **2013**, 411, 16-26	9.3	25
277	Toward a quantitative model for suspended particle devices: Optical scattering and absorption coefficients. *Solar Energy Materials and Solar Cells*, **2013**, 111, 115-122	6.4	49
276	Electronic and optical properties of nanocrystalline WO□thin films studied by optical spectroscopy and density functional calculations. *Journal of Physics Condensed Matter*, **2013**, 25, 205502	1.8	34
275	Thermochromic VO2 nanorods made by sputter deposition: Growth conditions and optical modeling. *Journal of Applied Physics*, **2013**, 114, 033516	2.5	29
274	Bandgap widening in thermochromic Mg-doped VO2 thin films: Quantitative data based on optical absorption. *Applied Physics Letters*, **2013**, 103, 161907	3.4	65
273	Progress in Chromogenic Materials and Devices: New Data on Electrochromics and Thermochromics. *Materials Research Society Symposia Proceedings*, **2013**, 1492, 99-110		2
272	Electrochromics and Thermochromics for Energy Efficient Fenestration: New Applications Based on Transparent Conducting Nanoparticles. *Materials Research Society Symposia Proceedings*, **2013**, 1558, 1		
271	[PEI-SiO2]:[LiTFSI] nanocomposite polymer electrolytes:Ion conduction and optical properties. *Solar Energy Materials and Solar Cells*, **2012**, 98, 465-471	6.4	28
270	Electrochromism in sputter deposited nickel-containing tungsten oxide films. *Solar Energy Materials and Solar Cells*, **2012**, 99, 339-344	6.4	64

269	Electrochromic properties of nickel oxide based thin films sputter deposited in the presence of water vapor. *Thin Solid Films*, **2012**, 520, 3839-3842	2.2	26
268	Thermochromic fenestration with VO2-based materials: Three challenges and how they can be met. *Thin Solid Films*, **2012**, 520, 3823-3828	2.2	211
267	Thin gold films on SnO2:In: Temperature-dependent effects on the optical properties. *Thin Solid Films*, **2012**, 520, 3688-3691	2.2	11
266	Structural and optical properties of visible active photocatalytic WO3 thin films prepared by reactive dc magnetron sputtering. *Journal of Materials Research*, **2012**, 27, 3130-3140	2.5	29
265	Ellipsometrically determined optical properties of nickel-containing tungsten oxide thin films: Nanostructure inferred from effective medium theory. *Journal of Applied Physics*, **2012**, 112, 044308	2.5	5
264	Spectroscopic study of the photofixation of SO2 on anatase TiO2 thin films and their oleophobic properties. *ACS Applied Materials & Interfaces*, **2012**, 4, 672-9	9.5	35
263	Plasma emission monitoring (PEM) controlled DC reactive sputtered ZnO:Al thin films. *Vacuum*, **2012**, 86, 1939-1944	3.7	3
262	Optical properties of Mg-doped VO2: Absorption measurements and hybrid functional calculations. *Applied Physics Letters*, **2012**, 101, 201902	3.4	58
261	Plasmon-induced near-infrared electrochromism based on transparent conducting nanoparticles: Approximate performance limits. *Applied Physics Letters*, **2012**, 101, 071903	3.4	27
260	A polymer electrolyte with high luminous transmittance and low solar throughput: Polyethyleneimine-lithium bis(trifluoromethylsulfonyl) imide with In2O3:Sn nanocrystals. *Applied Physics Letters*, **2012**, 100, 241902	3.4	28
259	Thermochromism of VO2 Nanoparticles: Calculated Optical Properties and Applications to Energy Efficient Windows. *Materials Research Society Symposia Proceedings*, **2011**, 1315, 1		2
258	Spectrally selective reflector surfaces for heat reduction in concentrator solar cells: modeling and applications of TiO□Nb-based thin films. *Applied Optics*, **2011**, 50, 3296-302	0.2	9
257	Spectral density analysis of the optical properties of Ni-Al 2 O 3 nano-composite films **2011**,		3
256	Ion conduction of branched polyethyleneimine□thium bis(trifluoromethylsulfonyl) imide electrolytes. *Electrochimica Acta*, **2011**, 57, 201-206	6.7	18
255	Unveiling the complex electronic structure of amorphous metal oxides. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 6355-6360	11.5	79
254	Au thin films deposited on SnO2:In and glass: Substrate effects on the optical and electrical properties. *Thin Solid Films*, **2011**, 519, 1930-1933	2.2	18
253	Structure and composition of sputter-deposited nickel-tungsten oxide films. *Thin Solid Films*, **2011**, 519, 2062-2066	2.2	54
252	Optical properties of thin films of mixed Ni□V oxide made by reactive DC magnetron sputtering. *Thin Solid Films*, **2011**, 519, 2914-2918	2.2	17

251	A thermochromic low-emittance coating: Calculations for nanocomposites of In2O3:Sn and VO2. *Applied Physics Letters*, **2011**, 99, 131907	3.4	20
250	**2011**,		6
249	Oxide-Based Electrochromics: Advances in Materials and Devices. *Materials Research Society Symposia Proceedings*, **2011**, 1328, 20101		3
248	Nanothermochromics with VO2-based core-shell structures: Calculated luminous and solar optical properties. *Journal of Applied Physics*, **2011**, 109, 113515	2.5	83
247	Au-Based Transparent Conductors for Window Applications: Effect of Substrate Material. *Advances in Science and Technology*, **2010**, 75, 25-30	0.1	
246	Ionic relaxation in polyethyleneimine-lithium bis(trifluoromethylsulfonyl) imide polymer electrolytes. *Journal of Applied Physics*, **2010**, 108, 074102	2.5	20
245	Chromogenics for Sustainable Energy: Some Advances in Thermochromics and Electrochromics. *Advances in Science and Technology*, **2010**, 75, 55-64	0.1	5
244	Optical band-gap determination of nanostructured WO3 film. *Applied Physics Letters*, **2010**, 96, 061909	3.4	227
243	Nanothermochromics: Calculations for VO2 nanoparticles in dielectric hosts show much improved luminous transmittance and solar energy transmittance modulation. *Journal of Applied Physics*, **2010**, 108, 063525	2.5	181
242	Determination of electronic structure by impedance spectroscopy. *Journal of Non-Crystalline Solids*, **2010**, 356, 705-709	3.9	9
241	Concentration dependence of ionic relaxation in lithium doped polymer electrolytes. *Journal of Non-Crystalline Solids*, **2010**, 356, 710-714	3.9	14
240	Transparent and conducting TiO2:Nb films made by sputter deposition: Application to spectrally selective solar reflectors. *Solar Energy Materials and Solar Cells*, **2010**, 94, 75-79	6.4	26
239	Advances in chromogenic materials and devices. *Thin Solid Films*, **2010**, 518, 3046-3053	2.2	158
238	Spectroscopic ellipsometry characterization of electrochromic tungsten oxide and nickel oxide thin films made by sputter deposition. *Solar Energy Materials and Solar Cells*, **2010**, 94, 724-732	6.4	77
237	PEI□LiTFSI electrolytes for electrochromic devices: Characterization by differential scanning calorimetry and viscosity measurements. *Solar Energy Materials and Solar Cells*, **2010**, 94, 2399-2404	6.4	20
236	Ageing of electrochromic WO3 coatings characterized by electrochemical impedance spectroscopy. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 1772-1776	1.6	9
235	Electrochromism in nickel oxide and tungsten oxide thin films: Ion intercalation from different electrolytes. *Solar Energy Materials and Solar Cells*, **2009**, 93, 2050-2055	6.4	77
234	Thermochromic VO2-based multilayer films with enhanced luminous transmittance and solar modulation. *Physica Status Solidi (A) Applications and Materials Science*, **2009**, 206, 2155-2160	1.6	136

233	TiO2/Au/TiO2 multilayer thin films: Novel metal-based transparent conductors for electrochromic devices. *Thin Solid Films*, **2009**, 518, 1225-1229	2.2	59
232	Photo-fixation of SO2 in nanocrystalline TiO2 films prepared by reactive DC magnetron sputtering. *Thin Solid Films*, **2009**, 518, 1341-1344	2.2	16
231	Optical properties of sputter deposited transparent and conducting TiO2:Nb films. *Thin Solid Films*, **2009**, 518, 1254-1258	2.2	36
230	Progress in chromogenics: New results for electrochromic and thermochromic materials and devices. *Solar Energy Materials and Solar Cells*, **2009**, 93, 2032-2039	6.4	219
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