

Andreas Klein

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.

271
papers

9,173
citations

49
h-index

81
g-index

282
ext. papers

9,989
ext. citations

4
avg, IF

6.3
L-index

#	Paper	IF	Citations
271	Origin of Surface Reduction upon Water Adsorption on Oriented NiO Thin Films and Its Relation to Electrochemical Activity. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1303-1315	3.8	0
270	Electroceramics XVII - The 2020 virtual conference experience at TU Darmstadt. <i>Open Ceramics</i> , 2021 , 6, 100114	3.3	0
269	Influence of Defects on the Schottky Barrier Height at BaTiO ₃ /RuO ₂ Interfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2100143	1.6	0
268	Design of Lead-Free Antiferroelectric (1-x)NaNbO ₃ -xSrSnO ₃ Compositions Guided by First-Principles Calculations. <i>Chemistry of Materials</i> , 2021 , 33, 266-274	9.6	16
267	High field electroformation of sodium bismuth titanate and its solid solutions with barium titanate. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3334-3342	7.1	2
266	Fermi Level Engineering for Large Permittivity in BaTiO ₃ -Based Multilayers. <i>Surfaces</i> , 2020 , 3, 567-578	2.9	
265	Pinning of the Fermi Level in CuFeO ₂ by Polaron Formation Limiting the Photovoltage for Photochemical Water Splitting. <i>Advanced Functional Materials</i> , 2020 , 30, 1910432	15.6	23
264	Polarization dependence of ZnO Schottky barriers revealed by photoelectron spectroscopy. <i>Physical Review Materials</i> , 2020 , 4,	3.2	6
263	Review Electronic Properties of 2D Layered Chalcogenide Surfaces and Interfaces grown by (quasi) van der Waals Epitaxy. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 093012	2	3
262	Electroless Nanoplatin of PdPt Alloy Nanotube Networks: Catalysts with Full Compositional Control for the Methanol Oxidation Reaction. <i>ChemElectroChem</i> , 2020 , 7, 855-864	4.3	8
261	Oxygen Surface Exchange and Tracer Diffusion in Differently Oriented Thin Films of Gd-Doped CeO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36768-36777	9.5	3
260	Sunlight Selective Photodeposition of CoO(OH) and NiO(OH) on Truncated Bipyramidal BiVO ₄ for Highly Efficient Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2020 ,	9.5	10
259	Fermi Energy Limitation at BiCuGaO ₂ Interfaces Induced by Electrochemical Oxidation/Reduction of Cu. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9117-9125	6.1	1
258	BiVO ₄ Surface Reduction upon Water Exposure. <i>ACS Energy Letters</i> , 2019 , 4, 2522-2528	20.1	14
257	Analysis of the interfacial characteristics of BiVO ₄ /metal oxide heterostructures and its implication on their junction properties. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5086-5096	3.6	43
256	Off-Stoichiometry of Magnetron Sputtered Ba _{1-x} Sr _x TiO ₃ Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900148	1.3	7
255	Influence of ZnO Surface Modification on the Photocatalytic Performance of ZnO/NiO Thin Films. <i>Catalysis Letters</i> , 2019 , 149, 1813-1824	2.8	8

254	Defect Modulation Doping. <i>Advanced Functional Materials</i> , 2019 , 29, 1807906	15.6	14
253	Concentration and Diffusivity of Oxygen Interstitials in Niobia-Doped Ceria. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6340-6350	3.8	5
252	The energy level of the Fe-transition in BaTiO and SrTiO single crystals. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 6238-6246	3.6	5
251	Multi-Level Cell Properties of a Bilayer CuO/Al ₂ O ₃ Resistive Switching Device. <i>Nanomaterials</i> , 2019 , 9,	5.4	17
250	Interface Behaviour and Work Function Modification of Self-Assembled Monolayers on Sn-Doped In ₂ O ₃ . <i>Surfaces</i> , 2019 , 2, 241-256	2.9	1
249	SnO Films Deposited by Ultrasonic Spray Pyrolysis: Influence of Al Incorporation on the Properties. <i>Molecules</i> , 2019 , 24,	4.8	15
248	Nickel Oxide Selectively Deposited on the {101} Facet of Anatase TiO ₂ Nanocrystal Bipyramids for Enhanced Photocatalysis. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4793-4803	5.6	16
247	Electrical Properties of Low-Temperature Processed Sn-Doped InO Thin Films: The Role of Microstructure and Oxygen Content and the Potential of Defect Modulation Doping. <i>Materials</i> , 2019 , 12,	3.5	5
246	Sputter Deposition of Transition Metal Oxides on Silicon: Evidencing the Role of Oxygen Bombardment for Fermi-Level Pinning. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1900730	1.6	1
245	Electrochemical Reduction of Undoped and Cobalt-Doped BiFeO Induced by Water Exposure: Quantitative Determination of Reduction Potentials and Defect Energy Levels Using Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7071-7076	6.4	7
244	Off-Stoichiometry of Magnetron Sputtered Ba _{1-x} Sr _x TiO ₃ Thin Films (Phys. Status Solidi B 10/2019). <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1970039	1.3	
243	Barrier formation at BaTiO ₃ interfaces with Ni and NiO. <i>Applied Surface Science</i> , 2019 , 466, 472-476	6.7	6
242	Enhancing electrical conductivity of room temperature deposited Sn-doped In ₂ O ₃ thin films by hematite seed layers. <i>Applied Physics Letters</i> , 2018 , 112, 152105	3.4	7
241	Energy-Band Alignment of BiVO ₄ from Photoelectron Spectroscopy of Solid-State Interfaces. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20861-20870	3.8	22
240	Residual stress effect on coupling electromechanical factor of epitaxial Barium Strontium Titanate (BST) thin films. <i>Mechanics Research Communications</i> , 2018 , 87, 13-20	2.2	4
239	Supercritical CO ₂ -assisted deposition of NiO on (101)-anatase-TiO ₂ for efficient facet engineered photocatalysts. <i>New Journal of Chemistry</i> , 2018 , 42, 18649-18658	3.6	7
238	The Work Function of TiO ₂ . <i>Surfaces</i> , 2018 , 1, 73-89	2.9	84
237	Electrocatalytic Properties of (100)-, (110)-, and (111)-Oriented NiO Thin Films toward the Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22252-22263	3.8	20

236	Limitation of Fermi level shifts by polaron defect states in hematite photoelectrodes. <i>Nature Communications</i> , 2018 , 9, 4309	17.4	65
235	Fermi Level Positions and Induced Band Bending at Single Crystalline Anatase (101) and (001) Surfaces: Origin of the Enhanced Photocatalytic Activity of Facet Engineered Crystals. <i>Advanced Energy Materials</i> , 2018 , 8, 1802195	21.8	23
234	Discovering the Determining Parameters for the Photocatalytic Activity of TiO ₂ Colloids Based on an Anomalous Dependence on the Specific Surface Area. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800216	3.1	5
233	Energy band alignment of antiferroelectric (Pb,La)(Zr,Sn,Ti)O ₃ . <i>Applied Surface Science</i> , 2017 , 407, 99-104	4.7	2
232	Influence of dopant segregation on the work function and electrical properties of Ge-doped in comparison to Sn-doped In ₂ O ₃ thin films (Phys. Status Solidi A 2017). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1770109	1.6	
231	Energy band alignment at the nanoscale. <i>Applied Physics Letters</i> , 2017 , 110, 051603	3.4	2
230	Piezotronic effect at Schottky barrier of a metal-ZnO single crystal interface. <i>Journal of Applied Physics</i> , 2017 , 121, 155701	2.5	18
229	Modification of the Schottky barrier height at the RuO ₂ cathode during resistance degradation of Fe-doped SrTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4590-4601	3.8	13
228	A Space-Charge Treatment of the Increased Concentration of Reactive Species at the Surface of a Ceria Solid Solution. <i>Angewandte Chemie</i> , 2017 , 129, 14708-14712	3.6	4
227	Systematic Investigation of the Electronic Structure of Hematite Thin Films. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700542	4.6	14
226	A Space-Charge Treatment of the Increased Concentration of Reactive Species at the Surface of a Ceria Solid Solution. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14516-14520	16.4	22
225	Polymorphism of the Blocking TiO ₂ Layer Deposited on F:SnO ₂ and Its Influence on the Interfacial Energetic Alignment. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17305-17313	3.8	4
224	Elasticity study of textured barium strontium titanate thin films by X-ray diffraction and laser acoustic waves. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 055501	1.4	2
223	Influence of dopant segregation on the work function and electrical properties of Ge-doped in comparison to Sn-doped In ₂ O ₃ thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1600486	1.6	4
222	Determination of electrical properties of degraded mixed ionic conductors: Impedance studies with applied dc voltage. <i>Journal of Applied Physics</i> , 2017 , 122, 244101	2.5	10
221	High quality epitaxial fluorine-doped SnO ₂ films by ultrasonic spray pyrolysis: Structural and physical property investigation. <i>Materials and Design</i> , 2017 , 132, 518-525	8.1	13
220	Investigations on RF-magnetron sputtered Co ₃ O ₄ thin films regarding the solar energy conversion properties. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 155306	3	23
219	Band Alignment Engineering at Cu ₂ O/ZnO Heterointerfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21824-31	9.5	86

218	Polarisation dependence of Schottky barrier heights at ferroelectric BaTiO ₃ / RuO ₂ interfaces: influence of substrate orientation and quality. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 295304	3	17
217	Influence of dopant species and concentration on grain boundary scattering in degenerately doped In ₂ O ₃ thin films. <i>Thin Solid Films</i> , 2016 , 614, 62-68	2.2	33
216	Influence of grain boundaries and interfaces on the electronic structure of polycrystalline CuO thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1615-1624	1.6	22
215	Comparative study of sputter-deposited SnO ₂ films doped with antimony or tantalum. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 923-928	1.3	13
214	Interface Properties of Dielectric Oxides. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 369-387	3.8	55
213	Surface potentials of (111), (110) and (100) oriented CeO ₂ thin films. <i>Applied Surface Science</i> , 2016 , 377, 1-8	6.7	21
212	Defect chemistry and resistance degradation in Fe-doped SrTiO ₃ single crystal. <i>Acta Materialia</i> , 2016 , 108, 229-240	8.4	64
211	Defect Structure of Doped Lead-Free 0.9(Bi _{0.5} Na _{0.5})TiO ₃ –0.1(Bi _{0.5} K _{0.5})TiO ₃ Piezoceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 543-550	3.8	9
210	Copper (I) Oxide (Cu ₂ O) based back contact for p-i-n CdTe solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2016 , 24, 1229-1236	6.8	20
209	Highly conductive grain boundaries in copper oxide thin films. <i>Journal of Applied Physics</i> , 2016 , 119, 235303	3.3	15
208	Functional Interfaces for Transparent Organic Electronic Devices: Consistent Description of Charge Injection by Combining In Situ XPS and Current Voltage Measurements with Self-Consistent Modeling. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10466-10475	3.8	2
207	Substrate reactivity as the origin of Fermi level pinning at the Cu ₂ O/ALD-Al ₂ O ₃ interface. <i>Materials Research Express</i> , 2016 , 3, 046404	1.7	7
206	Application of atomic layer deposited Al ₂ O ₃ as charge injection layer for high-permittivity dielectrics. <i>Semiconductor Science and Technology</i> , 2015 , 30, 024012	1.8	5
205	Energy band alignment in chalcogenide thin film solar cells from photoelectron spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 134201	1.8	73
204	In Situ Hall Effect Monitoring of Vacuum Annealing of In ₂ O ₃ Thin Films. <i>Materials</i> , 2015 , 8, 561-574	3.5	37
203	Study of electrical fatigue by defect engineering in organic light-emitting diodes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015 , 192, 26-51	3.1	23
202	Cu ₂ S as ohmic back contact for CdTe solar cells. <i>Thin Solid Films</i> , 2015 , 582, 336-339	2.2	13
201	Reversible metal-insulator transition of Ar-irradiated LaAlO ₃ /SrTiO ₃ interfaces. <i>Physical Review B</i> , 2015 , 92,	3.3	15

200	Schottky Solar Cells with CuInS ₂ Nanocrystals as Absorber Material. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015 , 229, 191-203	3.1	9
199	Quantitative Nanometer-Scale Mapping of Dielectric Tunability. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500088	4.6	6
198	Improved photocatalytic activity in RuO ₂ -ZnO nanoparticulate heterostructures due to inhomogeneous space charge effects. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 5090-102	3.6	59
197	Sputter-deposited polycrystalline tantalum-doped SnO ₂ layers. <i>Thin Solid Films</i> , 2014 , 555, 173-178	2.2	25
196	Reactively magnetron sputtered Bi ₂ O ₃ thin films: Analysis of structure, optoelectronic, interface, and photovoltaic properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 93-100	1.6	39
195	In situ Hall effect and conductivity measurements of ITO thin films. <i>Solid State Ionics</i> , 2014 , 262, 636-639	3.3	13
194	Domain wall stability in ferroelectrics with space charges. <i>Journal of Applied Physics</i> , 2014 , 115, 084110	2.5	22
193	Growth and surface properties of epitaxial SnO ₂ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1997-2004	1.6	17
192	Intrinsic energy band alignment of functional oxides. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 571-576	2.5	50
191	Vapor-Phase Deposition of Oxides 2014 , 267-290		
190	Energy band alignment at ferroelectric/electrode interface determined by photoelectron spectroscopy. <i>Chinese Physics B</i> , 2014 , 23, 017702	1.2	4
189	Valence band offsets at Cu(In,Ga)Se ₂ /Zn(O,S) interfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1972-1980	1.6	14
188	Modification of energy band alignment and electric properties of Pt/Ba _{0.6} Sr _{0.4} TiO ₃ /Pt thin-film ferroelectric varactors by Ag impurities at interfaces. <i>Journal of Applied Physics</i> , 2014 , 115, 243704	2.5	3
187	Efficacy of the DFT + U formalism for modeling hole polarons in perovskite oxides. <i>Physical Review B</i> , 2014 , 90,	3.3	71
186	Efficiency limitations of thermally evaporated thin-film SnS solar cells. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 305109	3	97
185	Energy Band Alignment between Anatase and Rutile TiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 4182-4187	6.4	184
184	PVD of copper sulfide (Cu ₂ S) for PIN-structured solar cells. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 495112	3	26
183	SXPS studies of single crystalline CdTe/CdS interfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013 , 190, 54-63	1.7	6

182	Transparent Conducting Oxides: Electronic Structure-Property Relationship from Photoelectron Spectroscopy with in situ Sample Preparation. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 331-345	3.8	100
181	Influence of orbital contributions to the valence band alignment of Bi ₂ O ₃ , Fe ₂ O ₃ , BiFeO ₃ , and Bi _{0.5} Na _{0.5} TiO ₃ . <i>Physical Review B</i> , 2013 , 88,	3.3	44
180	Thermal stability, morphology and electronic band gap of Zn(NCN). <i>Solid State Sciences</i> , 2013 , 23, 50-57	3.4	16
179	Studies on CdTe solar cell front contact properties using X-ray photoelectron spectroscopy. <i>Thin Solid Films</i> , 2013 , 545, 548-557	2.2	7
178	A possible way to reduce absorber layer thickness in thin film CdTe solar cells. <i>Thin Solid Films</i> , 2013 , 535, 233-236	2.2	21
177	Surface electronic properties of polycrystalline bulk and thin film In ₂ O ₃ (ZnO) _k compounds. <i>Applied Surface Science</i> , 2013 , 264, 811-815	6.7	3
176	Preparation of RuO ₂ /TiO ₂ Mesoporous Heterostructures and Rationalization of Their Enhanced Photocatalytic Properties by Band Alignment Investigations. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22098-22110	3.8	128
175	Detailed photoluminescence studies of thin film Cu ₂ S for determination of quasi-Fermi level splitting and defect levels. <i>Journal of Applied Physics</i> , 2013 , 114, 233506	2.5	7
174	Spectral Calibrated and Confocal Photoluminescence of Cu ₂ S Thin-Film Absorber. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1538, 191-196		1
173	An in situ x-ray photoelectron spectroscopy study of the initial stages of rf magnetron sputter deposition of indium tin oxide on p-type Si substrate. <i>Applied Physics Letters</i> , 2013 , 102, 021606	3.4	11
172	Evidence of diffusion at BaTiO ₃ /silicon interfaces. <i>Thin Solid Films</i> , 2012 , 520, 1997-2000	2.2	7
171	Energy band alignment at interfaces of semiconducting oxides: A review of experimental determination using photoelectron spectroscopy and comparison with theoretical predictions by the electron affinity rule, charge neutrality levels, and the common anion rule. <i>Thin Solid Films</i> , 2012 , 520, 2721-2728	2.2	103
170	Surface studies of crystalline and amorphous ZnIn ₂ SnO transparent conducting oxides. <i>Thin Solid Films</i> , 2012 , 520, 5633-5639	2.2	13
169	Silicon carbonitride nanolayers [Synthesis and chemical characterization. <i>Thin Solid Films</i> , 2012 , 520, 5906-5913	2.2	16
168	Photoelectron Spectroscopy in Materials Science and Physical Chemistry: Analysis of Composition, Chemical Bonding, and Electronic Structure of Surfaces and Interfaces 2012 , 477-512		8
167	Vapor-Phase Deposition of Oxides 2012 , 267-290		3
166	Atomic Layer Deposition of Al ₂ O ₃ onto Sn-Doped In ₂ O ₃ : Absence of Self-Limited Adsorption during Initial Growth by Oxygen Diffusion from the Substrate and Band Offset Modification by Fermi Level Pinning in Al ₂ O ₃ . <i>Chemistry of Materials</i> , 2012 , 24, 4503-4510	9.6	28
165	Organic Grafting on Si for Interfacial SiO ₂ Growth Inhibition During Chemical Vapor Deposition of HfO ₂ . <i>Chemistry of Materials</i> , 2012 , 24, 3135-3142	9.6	5

164	Sputter deposition of indium tin oxide onto zinc phthalocyanine: Chemical and electronic properties of the interface studied by photoelectron spectroscopy. <i>Applied Surface Science</i> , 2012 , 258, 3913-3919	6.7	6
163	Nanoscaled tin dioxide films processed from organotin-based hybrid materials: an organometallic route toward metal oxide gas sensors. <i>Nanoscale</i> , 2012 , 4, 6806-13	7.7	38
162	Polarization dependence of Schottky barrier heights at interfaces of ferroelectrics determined by photoelectron spectroscopy. <i>Physical Review B</i> , 2012 , 86,	3.3	66
161	Chemical bonds and elemental compositions of BCxNy layers produced by chemical vapor deposition with trimethylamine borane, triethylamine borane, or trimethylborazine. <i>X-Ray Spectrometry</i> , 2012 , 41, 240-246	0.9	6
160	Electrically Programmable Bistable Capacitor for High-Frequency Applications Based on Charge Storage at the (Ba,Sr)TiO3/Al2O3 Interface. <i>Advanced Functional Materials</i> , 2012 , 22, 4827-4832	15.6	12
159	Chemical interactions in the layered system BCxNy/Ni(Cu)/Si, produced by CVD at high temperature. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 479-87	4.4	4
158	Reactive magnetron sputtering of Cu2O: Dependence on oxygen pressure and interface formation with indium tin oxide. <i>Journal of Applied Physics</i> , 2011 , 109, 113704	2.5	78
157	PbTiO3/SrTiO3 interface: Energy band alignment and its relation to the limits of Fermi level variation. <i>Physical Review B</i> , 2011 , 84,	3.3	50
156	Photoemission studies on undoped SnO2 buffer layers for CdTe thin film solar cells. <i>Energy Procedia</i> , 2011 , 10, 149-154	2.3	12
155	An optimized multilayer structure of CdS layer for CdTe solar cells application. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 5285-5289	5.7	30
154	Comparison between the structural, morphological and optical properties of CdS layers prepared by Close Space Sublimation and RF magnetron sputtering for CdTe solar cells. <i>Thin Solid Films</i> , 2011 , 519, 7596-7599	2.2	26
153	Influence of the PVD sputtering method on structural characteristics of SiCN-coatings □ Comparison of RF, DC and HiPIMS sputtering and target configurations. <i>Surface and Coatings Technology</i> , 2011 , 205, S119-S123	4.4	38
152	CdTe thin film solar cells with reduced CdS film thickness. <i>Thin Solid Films</i> , 2011 , 519, 7138-7141	2.2	31
151	Interdiffusion at the BaCuSeF/ZnTe interface. <i>Thin Solid Films</i> , 2011 , 519, 7369-7373	2.2	1
150	Influence of substrate temperature, growth rate and TCO substrate on the properties of CSS deposited CdS thin films. <i>Thin Solid Films</i> , 2011 , 519, 7556-7559	2.2	28
149	Annealing effects on the chemical deposited CdS films and the electrical properties of CdS/CdTe solar cells. <i>Materials Research Bulletin</i> , 2011 , 46, 194-198	5.1	21
148	Resonant photoemission shake-up satellites from semiconductors with shallow 3d and 4d core levels. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 309-313	1.3	2
147	Self-limited oxygen exchange kinetics at SnO2 surfaces. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 3223-6	3.6	15

146	Electrical properties of (Ba, Sr)TiO ₃ thin films with Pt and ITO electrodes: dielectric and rectifying behaviour. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 334202	1.8	20
145	Optimized chemical bath deposited CdS layers for the improvement of CdTe solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 816-820	6.4	75
144	Orientation dependent ionization potential of In ₂ O ₃ : a natural source for inhomogeneous barrier formation at electrode interfaces in organic electronics. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 334203	1.8	27
143	Role of copper interstitials in CuInSe ₂ : First-principles calculations. <i>Physical Review B</i> , 2011 , 84,	3.3	24
142	12% efficient CdTe/CdS thin film solar cells deposited by low-temperature close space sublimation. <i>Journal of Applied Physics</i> , 2011 , 110, 064508	2.5	40
141	Reduction-induced Fermi level pinning at the interfaces between Pb(Zr,Ti)O ₃ and Pt, Cu and Ag metal electrodes. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 255301	3	37
140	Interface Investigation in Nanostructured BaTiO ₃ /Silica Composite Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 865-874	3.8	42
139	Energy level alignment and electrical properties of (Ba,Sr)TiO ₃ /Al ₂ O ₃ interfaces for tunable capacitors. <i>Journal of Applied Physics</i> , 2010 , 108, 014113	2.5	13
138	Band alignment at the BaCuSeF/ZnTe interface. <i>Applied Physics Letters</i> , 2010 , 96, 162110	3.4	9
137	Transparent Conducting Oxides for Photovoltaics: Manipulation of Fermi Level, Work Function and Energy Band Alignment. <i>Materials</i> , 2010 , 3, 4892-4914	3.5	300
136	Surface energy controlled preferential orientation of thin films. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 055301	3	37
135	Barrier heights, polarization switching, and electrical fatigue in Pb(Zr,Ti)O ₃ ceramics with different electrodes. <i>Journal of Applied Physics</i> , 2010 , 108, 104106	2.5	36
134	Energy band alignment between Pb(Zr,Ti)O ₃ and high and low work function conducting oxides from hole to electron injection. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 295301	3	42
133	Electronic structure of In ₂ O ₃ and Sn-doped In ₂ O ₃ by hard x-ray photoemission spectroscopy. <i>Physical Review B</i> , 2010 , 81,	3.3	94
132	Limits for n-type doping in In ₂ O ₃ and SnO ₂ : A theoretical approach by first-principles calculations using hybrid-functional methodology. <i>Journal of Applied Physics</i> , 2010 , 108, 053511	2.5	52
131	Electronic properties of BaCuChF (Ch=S,Se,Te) surfaces and BaCuSeF/ZnTe interfaces. <i>Journal of Applied Physics</i> , 2010 , 107, 103713	2.5	11
130	Analytical characterization of BC(x)N(y) films generated by LPCVD with triethylamine borane. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 1077-84	4.4	15
129	Properties of SiCN coatings for high temperature applications [Comparison of RF-, DC- and HPPMS-sputtering. <i>Surface and Coatings Technology</i> , 2010 , 205, S21-S27	4.4	26

128	Surface segregation in Nb-doped BaTiO ₃ films. <i>Applied Surface Science</i> , 2010 , 256, 6228-6232	6.7	11
127	In situ photoelectron study of the (Ba,Sr)TiO ₃ /RuO ₂ contact formation. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 187-192	6	34
126	Electrical properties of the CdTe back contact: A new chemically etching process based on nitric acid/acetic acid mixtures. <i>Applied Surface Science</i> , 2010 , 256, 5803-5806	6.7	11
125	Electronic structure of In ₂ O ₃ from resonant x-ray emission spectroscopy. <i>Applied Physics Letters</i> , 2009 , 94, 022105	3.4	38
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