Andreas Schler

List of Publications by Citations

45 papers	741 citations	17 h-index	26 g-index
48 ext. papers	930 ext. citations	4.4 avg, IF	4 L-index

#	Paper	IF	Citations
45	Ni N as an Active Hydrogen Oxidation Reaction Catalyst in Alkaline Medium. *Angewandte Chemie - International Edition*, **2019**, 58, 7445-7449	16.4	114
44	Structural and optical properties of titanium aluminum nitride films (Ti1−xAlxN). *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2001**, 19, 922-929	2.9	51
43	Novel black selective coating for tubular solar absorbers based on a sol–gel method. *Solar Energy*, **2013**, 94, 233-239	6.8	46
42	A Steep-Slope Transistor Combining Phase-Change and Band-to-Band-Tunneling to Achieve a sub-Unity Body Factor. *Scientific Reports*, **2017**, 7, 355	4.9	37
41	Elevated transition temperature in Ge doped VO2 thin films. *Journal of Applied Physics*, **2017**, 122, 045302	2.5	36
40	Application of titanium containing amorphous hydrogenated carbon films (a-C:H/Ti) as optical selective solar absorber coatings. *Solar Energy Materials and Solar Cells*, **2000**, 60, 295-307	6.4	34
39	Titanium-containing amorphous hydrogenated silicon carbon films (a-Si:C:H/Ti) for durable solar absorber coatings. *Solar Energy Materials and Solar Cells*, **2001**, 69, 271-284	6.4	32
38	Colored solar façades for buildings. *Energy Procedia*, **2017**, 122, 175-180	2.3	30
37	Reactively sputtered coatings on architectural glazing for coloured active solar thermal façades. *Energy and Buildings*, **2014**, 68, 764-770	7	28
36	Sol–gel deposition and optical characterization of multilayered SiO2/Ti1−xSixO2 coatings on solar collector glasses. *Solar Energy Materials and Solar Cells*, **2006**, 90, 2894-2907	6.4	27
35	Optical properties of titanium containing amorphous hydrogenated carbon films (a-C:H/Ti). *Journal of Applied Physics*, **2000**, 87, 4285-4292	2.5	26
34	Influence of doping in thermochromic V1−xW O2 and V1−xAl O2 thin films: Twice improved doping efficiency in V1−xW O2. *Journal of Alloys and Compounds*, **2015**, 621, 206-211	5.7	23
33	In situ photoelectron spectroscopy of titanium-containing amorphous hydrogenated carbon films. *Physical Review B*, **1999**, 60, 16164-16169	3.3	23
32	. *IEEE Electron Device Letters*, **2015**, 36, 972-974	4.4	22
31	Electrothermal actuation of vanadium dioxide for tunable capacitors and microwave filters with integrated microheaters. *Sensors and Actuators A: Physical*, **2016**, 241, 245-253	3.9	22
30	Vanadium Oxide Bandstop Tunable Filter for Ka Frequency Bands Based on a Novel Reconfigurable Spiral Shape Defected Ground Plane CPW. *IEEE Access*, **2018**, 6, 12206-12212	3.5	18
29	Thermal solar collector with VO2 absorber coating and V1-xWxO2 thermochromic glazing – Temperature matching and triggering. *Solar Energy*, **2014**, 110, 151-159	6.8	17

28	Optical and structural analysis of sol□gel derived Cu□Co□Mn□Si oxides for black selective solar nanocomposite multilayered coatings. *Solar Energy Materials and Solar Cells*, **2015**, 143, 573-580	6.4	15
27	Ni3N as an Active Hydrogen Oxidation Reaction Catalyst in Alkaline Medium. *Angewandte Chemie*, **2019**, 131, 7523-7527	3.6	14
26	Structural, electrical and magnetic characterization of in-situ crystallized ZnO:Co thin films synthesized by reactive magnetron sputtering. *Materials Chemistry and Physics*, **2015**, 161, 26-34	4.4	14
25	Temperature-dependent multiangle FTIR NIR□MIR ellipsometry of thermochromic VO2 and V1□WxO2 films. *Solar Energy*, **2015**, 118, 107-116	6.8	12
24	Structured transparent low emissivity coatings with high microwave transmission. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	10
23	Fabrication of CMOS-compatible abrupt electronic switches based on vanadium dioxide. *Microelectronic Engineering*, **2015**, 145, 117-119	2.5	10
22	Tunable RF Phase Shifters Based on Vanadium Dioxide Metal Insulator Transition. *IEEE Journal of the Electron Devices Society*, **2018**, 6, 965-971	2.3	10
21	Steep slope VO2 switches for wide-band (DC-40 GHz) reconfigurable electronics **2014**,		8
20	CFSpro: ray tracing for design and optimization of complex fenestration systems using mixed dimensionality approach. *Applied Optics*, **2016**, 55, 5127-34	0.2	6
19	Energy saving glazing with a wide band-pass FSS allowing mobile communication: up-scaling and characterisation. *IET Microwaves, Antennas and Propagation*, **2017**, 11, 1449-1455	1.6	6
18	Experimental Determination of Optical and Thermal Properties of Semi-transparent Photovoltaic Modules Based on Dye-sensitized Solar Cells. *Energy Procedia*, **2015**, 78, 453-458	2.3	6
17	Strong coloration of nanoporous tungsten oxides by in-vacuo lithiation for all-solid-state electrochromic devices. *Thin Solid Films*, **2021**, 730, 138700	2.2	6
16	3D Smith charts scattering parameters frequency-dependent orientation analysis and complex-scalar multi-parameter characterization applied to Peano reconfigurable vanadium dioxide inductors. *Scientific Reports*, **2019**, 9, 18346	4.9	5
15	Superhard, Antireflective Texturized Coatings Based on Hyperbranched Polymer Composite Hybrids for Thin-Film Solar Cell Encapsulation. *Energy Technology*, **2015**, 3, 366-372	3.5	4
14	Optical properties of in vacuo lithiated nanoporous WO3:Mo thin films as determined by spectroscopic ellipsometry. *Optical Materials*, **2021**, 117, 111091	3.3	4
13	Location Based Study of the Annual Thermal Loads with Microstructured Windows in European Climates. *Energy Procedia*, **2015**, 78, 91-96	2.3	3
12	Dimensional stability analysis of a UV printed polymer microstructure for a novel glazing system. *Energy Procedia*, **2017**, 122, 763-768	2.3	2
11	CMOS-compatible abrupt switches based on VO2 metal-insulator transition **2015**,		2

10	Development of a novel mechanical micro-engraving method for the high-aspect-ratio microstructures of an advanced window system. *Microelectronic Engineering*, **2018**, 191, 48-53	2.5	2
9	In-situ and post annealing effect on the microstructure and the optical properties of black Cu-Co-Mn oxide spinel coating for Parabolic Trough Collector (PTC) applications. *Journal of Physics: Conference Series*, **2019**, 1343, 012200	0.3	2
8	Wide band-pass FSS with reduced periodicity for energy efficient windows at higher frequencies. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	1
7	Microfabrication of curved sidewall grooves using scanning nanosecond excimer laser ablation **2018**,		1
6	Co-Sputtered Monocrystalline GeSn for Infrared Photodetection **2020**,		1
5	Investigation of the metal-insulator transition in VO2 for electronic switches with sub-1mV/decade steep subthreshold slope **2016**,		1
4	VO2:Ge based thermochromic solar absorber coatings. *Solar Energy Materials and Solar Cells*, **2022**, 240, 111680	6.4	1
3	Electronic properties and ion migration of in vacuo lithiated nanoporous WO3:Mo thin films. *Journal of Applied Physics*, **2022**, 131, 015301	2.5	0
2	Predicting the thermal performance of thermochromic flat plate solar collectors. *Journal of Physics: Conference Series*, **2019**, 1343, 012201	0.3	
1	In-line electronic and structural characterization of reactively sputtered Cu-Co-Mn black spinel oxides. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2021**, 39, 053411	2.9	