Peter Schaaf

List of Publications by Year in Descending Order

367 papers	6,660 citations	39 h-index	62 g-index
409 ext. papers	7,488 ext. citations	3.9 avg, IF	5.91 L-index

#	Paper	IF	Citations
367	Effect of SiO2 Interlayer Thickness in Au/SiO2/Si Multilayer Systems on Si Sources and the Formation of Au-Based Nanostructures. *Advanced Materials Interfaces*, **2022**, 9, 2101493	4.6	0
366	Thin film nanostructuring at oblique angles by substrate patterning. *Surface and Coatings Technology*, **2022**, 436, 128293	4.4	0
365	Evidence of hydration of the peridotite mantle wedge recorded in low-CaO olivines from Los Tuxtlas Volcanic Field, Veracruz, Mexico. *Lithos*, **2022**, 416-417, 106638	2.9	0
364	Perturbed Angular Correlation Technique at ISOLDE/CERN Applied for Studies of Hydrogenated Titanium Dioxide (TiO2): Observation of Cd-H Pairs. *Crystals*, **2022**, 12, 756	2.3	
363	Photo-thermoelectric conversion and photo-induced thermal imaging using 2D/3D ReS2@carbon framework with enhanced photon harvesting. *Chemical Engineering Journal*, **2022**, 446, 137084	14.7	2
362	Bio-inspired self-assembly of large area 3D Ag@SiO2 plasmonic nanostructures with tunable broadband light harvesting. *Applied Materials Today*, **2021**, 25, 101238	6.6	2
361	Phase Transformation and Characterization of 3D Reactive Microstructures in Nanoscale Al/Ni Multilayers. *Applied Sciences (Switzerland)*, **2021**, 11, 9304	2.6	1
360	High-Efficiency Photothermal Water Evaporation using Broadband Solar Energy Harvesting by Ultrablack Silicon Structures. *Advanced Energy and Sustainability Research*, **2021**, 2, 2000083	1.6	7
359	Morphological and compositional mapping of supersaturated AuNi alloy nanoparticles fabricated by solid state dewetting. *Applied Surface Science Advances*, **2021**, 4, 100082	2.6	1
358	Phase equilibrium modelling of the amphibolite facies metamorphism in the Yelapa-Chimo Metamorphic Complex, Mexico. *Geoscience Frontiers*, **2021**, 12, 293-312	6	2
357	Method for contact resistance determination of copper during fast temperature changes. *Journal of Materials Science*, **2021**, 56, 3827-3845	4.3	2
356	Development of the phase composition and the properties of Ti2AlC and Ti3AlC2 MAX-phase thin films □A multilayer approach towards high phase purity. *Applied Surface Science*, **2021**, 537, 147864	6.7	10
355	Substitutionally Dispersed High-Oxidation CoOx Clusters in the Lattice of Rutile TiO2 Triggering Efficient Co?Ti Cooperative Catalytic Centers for Oxygen Evolution Reactions. *Advanced Functional Materials*, **2021**, 31, 2009610	15.6	38
354	Formation of CuCrCoFeNiO high entropy alloy thin films by rapid thermal processing of Cu/CrNiO/FeCo multilayers. *Surface and Coatings Technology*, **2021**, 405, 126563	4.4	2
353	Efficient fabrication of MoS2 nanocomposites by water-assisted exfoliation for nonvolatile memories. *Green Chemistry*, **2021**, 23, 3642-3648	10	8
352	A synergetic effect between photogenerated carriers and photothermally enhanced electrochemical urea-assisted hydrogen generation on the Ni-NiO/Nickel Foam catalyst. *Materials Advances*, **2021**, 2, 2104-2111	3.3	5
351	Photo-Thermoelectric Conversion Using Black Silicon with Enhanced Light Trapping Performance far beyond the Band Edge Absorption. *ACS Applied Materials & Interfaces*, **2021**, 13, 1818-1826	9.5	9

350	Solid-State Dewetting of Gold on Stochastically Periodic SiO Nanocolumns Prepared by Oblique Angle Deposition. *ACS Applied Materials & Interfaces*, **2021**, 13, 11385-11395	9.5	5
349	Ultrafast formation of single phase B2 AlCoCrFeNi high entropy alloy films by reactive Ni/Al multilayers as heat source. *Materials and Design*, **2021**, 206, 109790	8.1	5
348	New insights into the petrogenesis of the Puerto Vallarta Batholith, Mexico: Evidence from petrology, zircon petrochronology, and phase equilibrium modeling. *Journal of South American Earth Sciences*, **2021**, 109, 103297	2	1
347	Specific Electrical Contact Resistance of Copper in Resistance Welding. *Physica Status Solidi (A) Applications and Materials Science*, **2021**, 218, 2100224	1.6	1
346	Achieving very high cycle fatigue performance of Au thin films for flexible electronic applications. *Journal of Materials Science and Technology*, **2021**, 89, 107-113	9.1	2
345	Formation and evolution of Au-SiOx Heterostructures: From nanoflowers to nanosprouts. *Materials and Design*, **2021**, 209, 109956	8.1	2
344	Efficient preparation of Ni-M (M´=´Fe, Co, Mo) bimetallic oxides layer on Ni nanorod arrays for electrocatalytic oxygen evolution. *Applied Materials Today*, **2021**, 25, 101185	6.6	3
343	Tailoring Patterned Visible-Light Scattering by Silicon Photonic Crystals. *ACS Applied Materials & Interfaces*, **2021**,	9.5	1
342	Preparation and Properties of Co/Fe Multilayers and Co-Fe Alloy Films for Application in Magnetic Field Sensors. *Key Engineering Materials*, **2020**, 865, 61-66	0.4	3
341	eMIL: Advanced emission Mössbauer spectrometer for measurements in versatile conditions. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2020**, 968, 163973	1.2	0
340	Experimental and Theoretical Study of Electronic and Hyperfine Properties of Hydrogenated Anatase (TiO2): Defect Interplay and Thermal Stability. *Journal of Physical Chemistry C*, **2020**, 124, 7511-7522	3.8	7
339	Nonlinear plasmon-exciton coupling enhances sum-frequency generation from a hybrid metal/semiconductor nanostructure. *Nature Communications*, **2020**, 11, 1464	17.4	17
338	3D structure evolution using metastable atomic layer deposition based on planar silver templates. *Applied Surface Science*, **2020**, 514, 145770	6.7	2
337	Numerical analysis of temperature distribution during laser deep welding of duplex stainless steel using a two-beam method. *Welding in the World, Le Soudage Dans Le Monde*, **2020**, 64, 623-632	1.9	3
336	Geochronology and geochemistry of the Puerto Vallarta igneous and metamorphic complex and its relation to Cordilleran arc magmatism in northwestern Mexico. *Lithos*, **2020**, 352-353, 105248	2.9	12
335	Metastable Atomic Layer Deposition: 3D Self-Assembly toward Ultradark Materials. *ACS Nano*, **2020**, 14, 15023-15031	16.7	5
334	Hydrogen-nitrogen plasma assisted synthesis of titanium dioxide with enhanced performance as anode for sodium ion batteries. *Scientific Reports*, **2020**, 10, 11817	4.9	2
333	Ultrasonic excitation during press-fit joining of electrical contacts. *International Journal of Advanced Manufacturing Technology*, **2020**, 109, 2215-2220	3.2	

332	NiCo2O4@Ni2P nanorods grown on nickel nanorod arrays as a bifunctional catalyst for efficient overall water splitting. *Materials Today Energy*, **2020**, 17, 100490	7	14
331	Ni3N-Coated Ni Nanorod Arrays for Hydrogen and Oxygen Evolution in Electrochemical Water Splitting. *ACS Applied Nano Materials*, **2020**, 3, 10986-10995	5.6	10
330	Fatigue behavior of nanoscale Mo/W multilayers on flexible substrates. *MRS Advances*, **2019**, 4, 2309-2317	0.7	1
329	Doubly Resonant Plasmonic Hot Spot–Exciton Coupling Enhances Second Harmonic Generation from Au/ZnO Hybrid Porous Nanosponges. *ACS Photonics*, **2019**, 6, 2779-2787	6.3	10
328	Effect of a thin Au and ZnO layer on optical properties of 1D PhC structures patterned in LED surface. *Optik*, **2019**, 199, 163333	2.5	1
327	A model revealing grain boundary arrangement-dominated fatigue cracking behavior in nanoscale metallic multilayers. *MRS Communications*, **2019**, 9, 936-940	2.7	
326	Synthesis and characterization of size controlled bimetallic nanosponges. *Physical Sciences Reviews*, **2019**, 4,	1.4	2
325	Disordered surface formation of WS2via hydrogen plasma with enhanced anode performances for lithium and sodium ion batteries. *Sustainable Energy and Fuels*, **2019**, 3, 865-874	5.8	13
324	A hyperfine look at titanium dioxide. *AIP Advances*, **2019**, 9, 085208	1.5	1
323	Hyperfine interactions and diffusion of Cd in TiO 2 (rutile). *Journal of Applied Physics*, **2019**, 126, 015102	2.5	4
322	N-doped TiO2 with a disordered surface layer fabricated via plasma treatment as an anode with clearly enhanced performance for rechargeable sodium ion batteries. *Sustainable Energy and Fuels*, **2019**, 3, 2688-2696	5.8	5
321	57Fe Mössbauer study of epitaxial TiN thin film grown on MgO (1 0 0) by magnetron sputtering. *Applied Surface Science*, **2019**, 464, 682-691	6.7	4
320	Plasma Hydrogenated TiO2/Nickel Foam as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 885-894	8.3	27
319	Corona assisted gallium oxide nanowire growth on silicon carbide. *Journal of Crystal Growth*, **2019**, 509, 107-111	1.6	3
318	Multiple metamorphic events in the Palaeozoic Mérida Andes basement, Venezuela: insights from U–Pb geochronology and Hf–Nd isotope systematics. *International Geology Review*, **2019**, 61, 1557-1593	2.3	18
317	Al-based binary reactive multilayer films: Large area freestanding film synthesis and self-propagating reaction analysis. *Applied Surface Science*, **2019**, 474, 243-249	6.7	3
316	Whiskers growth in thin passivated Au films. *Acta Materialia*, **2018**, 149, 154-163	8.4	25
315	Experimental investigation of high temperature oxidation during self-propagating reaction in Zr/Al reactive multilayer films. *Surface and Coatings Technology*, **2018**, 340, 66-73	4.4	6

314	Enhancing the Retention Force of Press-Fit Connections by Ultrasonic Excitation. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700598	1.6	
313	Investigation on Contact Resistance Behavior of Switching Contacts Using a Newly Developed Model Switch. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2018**, 8, 939-949	1.7	4
312	The Juchatengo complex: an upper-level ophiolite assemblage of late Paleozoic age in Oaxaca, southern Mexico. *International Journal of Earth Sciences*, **2018**, 107, 1005-1031	2.2	7
311	Plasmonic Horizon in Gold Nanosponges. *Nano Letters*, **2018**, 18, 1269-1273	11.5	20
310	Surface-Nanostructured Al/AlN Composite Thin Films with Excellent Broad-Band Antireflection Properties Fabricated by Limited Reactive Sputtering. *ACS Applied Nano Materials*, **2018**, 1, 1124-1130	5.6	3
309	Plasmonic nanosponges. *Advances in Physics: X*, **2018**, 3, 1456361	5.1	15
308	Solid-state dewetting of Au/Ni bi-layer films mediated through individual layer thickness and stacking sequence. *Applied Surface Science*, **2018**, 444, 505-510	6.7	12
307	Mössbauer spectroscopy of ZnxMg1-x Fe2O4 (0≤x≤0.74) nanostructures crystallized from borate glasses. *Journal of Nanoparticle Research*, **2018**, 20, 1	2.3	2
306	Layer thickness effect on fracture behavior of Al/Si3N4 multilayer on Si substrate under three-point bending. *Applied Surface Science*, **2018**, 445, 563-567	6.7	6
305	Aluminum-doped ZnO thin films deposited on flat and nanostructured glass substrates: Quality and performance for applications in organic solar cells. *Solar Energy*, **2018**, 172, 219-224	6.8	13
304	Optimization of self-propagating reaction properties through Al-molar ratios in ternary Titanium-Silicon-Aluminum reactive multilayer films. *Vacuum*, **2018**, 156, 205-211	3.7	1
303	Strong Spatial and Spectral Localization of Surface Plasmons in Individual Randomly Disordered Gold Nanosponges. *Nano Letters*, **2018**, 18, 4957-4964	11.5	11
302	Controlled synthesis of self-assembled 3D nanostructures using metastable atomic layer deposition. *Materials Today Chemistry*, **2018**, 10, 112-119	6.2	4
301	Tuning the nanoscale morphology and optical properties of porous gold nanoparticles by surface passivation and annealing. *Acta Materialia*, **2017**, 127, 108-116	8.4	19
300	Nanoporous Gold Nanoparticles and Au/AlO Hybrid Nanoparticles with Large Tunability of Plasmonic Properties. *ACS Applied Materials & Interfaces*, **2017**, 9, 6273-6281	9.5	43
299	Synthesis and characterization of Ti/Al reactive multilayer films with various molar ratios. *Thin Solid Films*, **2017**, 631, 99-105	2.2	15
298	Grenvillian massif-type anorthosite suite in Chiapas, Mexico: Magmatic to polymetamorphic evolution of anorthosites and their Ti-Fe ores. *Precambrian Research*, **2017**, 295, 203-226	3.9	22
297	Copper-MAX-phase composite coatings obtained by electro-co-deposition: A promising material for electrical contacts. *Surface and Coatings Technology*, **2017**, 321, 219-228	4.4	17

296	Self-propagating exothermic reaction analysis in Ti/Al reactive films using experiments and computational fluid dynamics simulation. *Applied Surface Science*, **2017**, 396, 1490-1498	6.7	12
295	Growth of Hierarchically 3D Silver□Silica Hybrid Nanostructures by Metastable State Assisted Atomic Layer Deposition (MS-ALD). *Advanced Materials Technologies*, **2017**, 2, 1700015	6.8	10
294	Direct transduction method for measuring the ultrasonic attenuation in Si(111) in the frequency range 100 MHz□1 GHz. *Measurement: Journal of the International Measurement Confederation*, **2017**, 100, 279-287	4.6	2
293	Perturbed angular correlations at ISOLDE: A 40 years young technique. *AIP Advances*, **2017**, 7, 105017	1.5	9
292	Hierarchically-Designed 3D Flower-Like Composite Nanostructures as an Ultrastable, Reproducible, and Sensitive SERS Substrate. *ACS Applied Materials & Interfaces*, **2017**, 9, 38854-38862	9.5	24
291	Effects of multilayer arrangement in ternary reactive film on self-propagating reaction properties. *Surface and Coatings Technology*, **2017**, 327, 25-31	4.4	5
290	M□ssbauer study and magnetic properties of MgFe2O4 crystallized from the glass system B2O3/K2O/P2O5/MgO/Fe2O3. *Journal of Magnetism and Magnetic Materials*, **2017**, 421, 306-315	2.8	9
289	Ultrasonic response of a piezoelectric aluminum nitride film deposited on silicon. *Instrumentation Science and Technology*, **2017**, 45, 137-150	1.4	1
288	Photonic crystal and photonic quasicrystal patterned in PDMS surfaces and their effect on LED radiation properties. *Applied Surface Science*, **2017**, 395, 220-225	6.7	16
287	Long-lived electron emission reveals localized plasmon modes in disordered nanosponge antennas. *Light: Science and Applications*, **2017**, 6, e17075	16.7	27
286	TDPAC study of Fe-implanted titanium dioxide thin films. *AIP Advances*, **2017**, 7, 095010	1.5	2
285	Solid-state dewetting of single- and bilayer Au-W thin films: Unraveling the role of individual layer thickness, stacking sequence and oxidation on morphology evolution. *AIP Advances*, **2016**, 6, 035109	1.5	24
284	Approaching Gas Phase Electrodeposition: Process and Optimization to Enable the Self-Aligned Growth of 3D Nanobridge-Based Interconnects. *Advanced Materials*, **2016**, 28, 1770-9	24	13
283	Elastic properties of nanolaminar Cr2AlC films and beams determined by in-situ scanning electron microscope bending tests. *Thin Solid Films*, **2016**, 604, 85-89	2.2	4
282	Strontium isotopes and mobility of a Columbian mammoth (Mammuthus columbi) population, Laguna de las Cruces, San Luis Potos□ M□xico. *Geological Magazine*, **2016**, 153, 743-749	2	9
281	Dietary adaptability of Late Pleistocene Equus from West Central Mexico. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2016**, 441, 748-757	2.9	19
280	Influence of the substrate on the morphological evolution of gold thin films during solid-state dewetting. *Applied Surface Science*, **2016**, 388, 475-482	6.7	19
279	Miocene andesitic lavas of Sierra de Angangueo: a petrological, geochemical, and geochronological approach to arc magmatism in Central Mexico. *International Geology Review*, **2016**, 58, 603-625	2.3	4

278	Fabrication of hollow gold nanoparticles by dewetting, dealloying and coarsening. *Acta Materialia*, **2016**, 102, 108-115	8.4	25
277	Model switch experiments for determining the evolution of contact resistance of electrical contacts in contactors **2016**,		4
276	Mesoscopically Bi-continuous Ag–Au Hybrid Nanosponges with Tunable Plasmon Resonances as Bottom-Up Substrates for Surface-Enhanced Raman Spectroscopy. *Chemistry of Materials*, **2016**, 28, 7673-7682	9.6	34
275	Size effect on mechanical behavior of Al/Si3N4 multilayers by nanoindentation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 644, 275-283	5.3	16
274	The aquatic and semiaquatic biota in Miocene amber from the Campo LA Granja mine (Chiapas, Mexico): Paleoenvironmental implications. *Journal of South American Earth Sciences*, **2015**, 62, 243-256	2	36
273	Nanocolumnar growth of sputtered ZnO thin films. *Thin Solid Films*, **2015**, 591, 230-236	2.2	7
272	Size effect on the mechanical behavior of Al/Si multilayers deposited on Kapton substrate. *Journal of Materials Science: Materials in Electronics*, **2015**, 26, 8224-8228	2.1	4
271	Optical Plasmons of Individual Gold Nanosponges. *ACS Photonics*, **2015**, 2, 1436-1442	6.3	39
270	ZnO/porous-Si and TiO2/porous-Si nanocomposite nanopillars. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2015**, 33, 01A102	2.9	4
269	Laser nitriding and carburization of materials **2015**, 33-58		7
268	Cancer Treatment: A Near Infrared Light Triggered Hydrogenated Black TiO2 for Cancer Photothermal Therapy (Adv. Healthcare Mater. 10/2015). *Advanced Healthcare Materials*, **2015**, 4, 1576-1576	10.1	2
267	El Ventorrillo, a paleostructure of Popocatépetl volcano: insights from geochronology and geochemistry. *Bulletin of Volcanology*, **2015**, 77, 1	2.4	18
266	Evidence of pre-Columbian settlements in the forest of the Tuxtla Volcanic Field, Veracruz, Mexico. *Geofisica International*, **2015**, 54, 277-287	0.4	1
265	A Near Infrared Light Triggered Hydrogenated Black TiO2 for Cancer Photothermal Therapy. *Advanced Healthcare Materials*, **2015**, 4, 1526-36	10.1	213
264	Improved Description of the Flow Characteristics of Copper for the Finite Element Simulation of the Cold Joining Process for High Current Electrical Contacts. *Advanced Engineering Materials*, **2015** , 17, 467-473	3.5	
263	Facet-controlled phase separation in supersaturated Au-Ni nanoparticles upon shape equilibration. *Applied Physics Letters*, **2015**, 107, 073109	3.4	18
262	Synchronous Formation of ZnO/ZnS Core/Shell Nanotube Arrays with Removal of Template for Meliorating Photoelectronic Performance. *Journal of Physical Chemistry C*, **2015**, 119, 1575-1582	3.8	20
261	Properties of sputtered TiO2 thin films as a function of deposition and annealing parameters. *Physica B: Condensed Matter*, **2015**, 463, 20-25	2.8	26

260	Quick Determination of Specific Contact Resistance of Metal Semiconductor Point Contacts on Highly Doped Silicon. *IEEE Journal of Photovoltaics*, **2015**, 5, 299-306	3.7	1
259	AlGaN based MEMS structures. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2014**, 11, 239-243		3
258	Size effect of Young modulus in AlN thin layers. *Journal of Applied Physics*, **2014**, 116, 124306	2.5	9
257	Surface-Enhanced Raman Scattering (SERS) Substrate Based on Large-Area Well-Defined Gold Nanoparticle Arrays with High SERS Uniformity and Stability. *ChemPlusChem*, **2014**, 79, 1622-1630	2.8	19
256	. *IEEE Journal of Photovoltaics*, **2014**, 4, 160-167	3.7	5
255	Fabrication of N-doped TiO2 coatings on nanoporous Si nanopillar arrays through biomimetic layer by layer mineralization. *Dalton Transactions*, **2014**, 43, 8480-5	4.3	13
254	Slightly hydrogenated TiO2 with enhanced photocatalytic performance. *Journal of Materials Chemistry A*, **2014**, 2, 12708-12716	13	164
253	Electrochemical lithiation of Si modified TiO2 nanotube arrays, investigated in ionic liquid electrolyte. *Journal of Electroanalytical Chemistry*, **2014**, 731, 6-13	4.1	5
252	Complex patterned gold structures fabricated via laser annealing and dealloying. *Applied Surface Science*, **2014**, 302, 74-78	6.7	7
251	Surface morphology and crystalline structure of sequentially sputtered ZnO nanocoatings. *Applied Surface Science*, **2014**, 312, 167-171	6.7	2
250	A review of batholiths and other plutonic intrusions of Mexico. *Gondwana Research*, **2014**, 26, 834-868	5.1	47
249	Diffusion in thin bilayer films during rapid thermal annealing. *Physica Status Solidi (A) Applications and Materials Science*, **2014**, 211, 2635-2644	1.6	5
248	Dewetting of Au/Ni bilayer films on prepatterned substrates and the formation of arrays of supersaturated Au-Ni nanoparticles. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2014**, 32, 021802	1.3	12
247	Tunable plasmon resonance of semi-spherical nanoporous gold nanoparticles. *Materials Research Express*, **2014**, 1, 035018	1.7	4
246	Laser Gas Assisted Nitriding of Ti Alloys **2014**, 261-278		2
245	Solid-state dewetting of Au/Ni bilayers: The effect of alloying on morphology evolution. *Journal of Applied Physics*, **2014**, 116, 044307	2.5	37
244	Tribological behavior of selected Mn + 1AXn phase thin films on silicon substrates. *Surface and Coatings Technology*, **2014**, 257, 286-294	4.4	19
243	Nanostructured plasma etched, magnetron sputtered nanolaminar Cr2AlC MAX phase thin films. *Applied Surface Science*, **2014**, 292, 997-1001	6.7	26

242	Electrochemical performance of nanoporous Si as anode for lithium ion batteries in alkyl carbonate and ionic liquid-based electrolytes. *Journal of Applied Electrochemistry*, **2014**, 44, 159-168	2.6	17
241	Industrial Applications of Laser-Material Interactions for Coating Formation. *Springer Series in Materials Science*, **2014**, 345-357	0.9	1
240	Ordered arrays of nanoporous silicon nanopillars and silicon nanopillars with nanoporous shells. *Nanoscale Research Letters*, **2013**, 8, 42	5	28
239	Formation of supersaturated AuNi nanoparticles via dewetting of an Au/Ni bilayer. *Materials Letters*, **2013**, 102-103, 22-25	3.3	20
238	Effect of 2D photonic structure patterned in the LED surface on emission properties. *Applied Surface Science*, **2013**, 269, 161-165	6.7	17
237	Nanoindentation of nano-Al/Si3N4 multilayers with Vickers and Brinell indenters. *Journal of the European Ceramic Society*, **2013**, 33, 2355-2358	6	10
236	Growth control of AgTCNQ nanowire arrays by using a template-assisted electro-deposition method. *Journal of Materials Chemistry C*, **2013**, 1, 8003	7.1	15
235	Understanding the fast lithium storage performance of hydrogenated TiO2 nanoparticles. *Journal of Materials Chemistry A*, **2013**, 1, 14507	13	116
234	Magnetic properties of multicore magnetite nanoparticles prepared by glass crystallisation. *Journal of Materials Science*, **2013**, 48, 2299-2307	4.3	18
233	GaAs-FeSi core-shell nanowires: nanobar magnets. *Nano Letters*, **2013**, 13, 6203-9	11.5	13
232	Eolian deposition cycles since AD 500 in Playa San Bartolo lunette dune, Sonora, Mexico: Paleoclimatic implications. *Aeolian Research*, **2013**, 11, 1-13	3.9	4
231	Luminescent ordered arrays of nanoporous silicon nanopillars and silicon nanopillars with nanoporous shells. *Materials Letters*, **2013**, 98, 186-189	3.3	7
230	Intermixing in Al/Ti multilayer structures induced by nanosecond laser pulses. *Physica Scripta*, **2013**, T157, 014008	2.6	1
229	Thin Film Calorimetry - Device Development and Application to Lithium Ion Battery Materials. *Materials Research Society Symposia Proceedings*, **2013**, 1496, 1		3
228	Concentration Quenching of Tb3+ Doped SiC:H and AlN Thin Films in Photoluminescence and Cathodoluminescence Measurements. *Materials Research Society Symposia Proceedings*, **2013**, 1571, 1		
227	Thin Film Synthesis of Ti3SiC2 by Rapid Thermal Processing of Magnetron-Sputtered Ti?C?Si Multilayer Systems. *Advanced Engineering Materials*, **2013**, 15, 269-275	3.5	11
226	Ordered arrays of patterned nanoporous silicon. *Journal of Micromechanics and Microengineering*, **2013**, 23, 074004	2	6
225	Silicon/silicide grown out of nanoporous gold nanoparticles. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 1512-1515	1.6	5

224	Solid-state dewetting for fabrication of metallic nanoparticles and influences of nanostructured substrates and dealloying. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 1544-1551	1.6	48
223	Ni/Au bi-metallic nanoparticles formed via dewetting. *Materials Letters*, **2012**, 70, 30-33	3.3	44
222	Formation of Ti2AlN nanolaminate films by multilayer-deposition and subsequent rapid thermal annealing. *Materials Letters*, **2012**, 82, 74-77	3.3	25
221	Thermal dewetting of thin Au films deposited onto line-patterned substrates. *Journal of Materials Science*, **2012**, 47, 1605-1608	4.3	34
220	Nanoporous gold nanoparticles. *Journal of Materials Chemistry*, **2012**, 22, 5344		98
219	Bonding of ceramics using reactive NanoFoil® **2012**,		1
218	Ordered arrays of nanoporous gold nanoparticles. *Beilstein Journal of Nanotechnology*, **2012**, 3, 651-7	3	48
217	Bonding of low temperature co-fired ceramics to copper and to ceramic blocks by reactive aluminum/nickel multilayers. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 512-518	1.6	18
216	Pulsed laser deposition from a pre-synthesized Cr2AlC MAX phase target with and without ion-beam assistance. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 545-552	1.6	9
215	Magnetisation effects of multicore magnetite nanoparticles crystallised from a silicate glass. *Journal of Materials Science*, **2012**, 47, 5886-5890	4.3	11
214	Residual stress measurements and mechanical properties of AlN thin films as ultra-sensitive materials for nanoelectromechanical systems. *Philosophical Magazine*, **2012**, 92, 3392-3401	1.6	3
213	Deformation behavior of Au/Ti multilayers under indentation. *Journal of Materials Science: Materials in Electronics*, **2012**, 23, 1077-1082	2.1	17
212	Mechanical Properties of Cubic SiC, GaN and AlN Thin Films. *Materials Science Forum*, **2012**, 717-720, 513-516	0.4	6
211	Miocene Crustacea from northern Bandar Abbas, South Iran. *Neues Jahrbuch Fur Geologie Und Palaontologie - Abhandlungen*, **2012**, 265, 221-234	1.1	4
210	Vergleichende Untersuchungen zur Bestimmung des Austenitgehalts austenitisch-ferritischen Gusseisens mit Kugelgraphit (ADI). *HTM - Journal of Heat Treatment and Materials*, **2012**, 67, 393-401	0.7	
209	Formation of precise 2D Au particle arrays via thermally induced dewetting on pre-patterned substrates. *Beilstein Journal of Nanotechnology*, **2011**, 2, 318-26	3	89
208	Glow discharge optical emission spectroscopy for accurate and well resolved analysis of coatings and thin films. *Thin Solid Films*, **2011**, 520, 1660-1667	2.2	43
207	Schichten über Schichten. *Vakuum in Forschung Und Praxis*, **2011**, 23, 24-32	0.3	1

206	Two-dimensional nanoparticle arrays formed by dewetting of thin gold films deposited on pre-patterned substrates. *Journal of Materials Science: Materials in Electronics*, **2011**, 22, 1067-1070	2.1	31
205	Laser nitriding: investigations on the model system TiN. A review. *Heat and Mass Transfer*, **2011**, 47, 519-540	2.2	31
204	Komplexe Materialprüfung und Schadensanalyse – *Materialpruefung/Materials Testing*, **2011**, 53, 150-158	1.9	1
203	Monitoring Phase Transition Kinetics in Austempered Ductile Iron (ADI). *Materials Science Forum*, **2010**, 638-642, 3394-3399	0.4	3
202	Refining the age of magmatism in the Altos Cuchumatanes, western Guatemala, by LA–ICPMS, and tectonic implications. *International Geology Review*, **2010**, 52, 977-998	2.3	35
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