

# Matej Jergel

## 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.

276  
papers

2,133  
citations

21  
h-index

30  
g-index

304  
ext. papers

2,344  
ext. citations

3.3  
avg, IF

4.16  
L-index

#	Paper	IF	Citations
276	Simultaneous measurement of X-ray scattering and photoluminescence during molecular deposition. <i>Journal of Luminescence</i> , <b>2022</b> , 248, 118950	3.8	1
275	Wettability of MXene films.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 622, 759-768	9.3	1
274	Combined Photoluminescence and X-ray Scattering Reveals Defect Formation in Lead-Halide Perovskite Films. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10156-10162	6.4	3
273	Nanoimaging of Orientational Defects in Semiconducting Organic Films. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 9229-9235	3.8	1
272	Orientation of Few-Layer MoS2 Films: In-Situ X-ray Scattering Study During Sulfurization. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 9461-9468	3.8	3
271	A high-throughput assembly of beam-shaping channel-cut monochromators for laboratory high-resolution X-ray diffraction and small-angle X-ray scattering experiments. <i>Journal of Applied Crystallography</i> , <b>2021</b> , 54, 730-738	3.8	
270	Structural and Trap-State Density Enhancement in Flash Infrared Annealed Perovskite Layers. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100355	4.6	2
269	Friction control by engineering the crystallographic orientation of the lubricating few-layer MoS2 films. <i>Applied Surface Science</i> , <b>2021</b> , 540, 148328	6.7	3
268	Crystallization of 2D Hybrid Organic-Inorganic Perovskites Templated by Conductive Substrates. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009007	15.6	4
267	Simultaneous Monitoring of Molecular Thin Film Morphology and Crystal Structure by X-ray Scattering. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 5269-5276	3.5	4
266	A bioconjugated MoS based nanoplatform with increased binding efficiency to cancer cells. <i>Biomaterials Science</i> , <b>2020</b> , 8, 1973-1980	7.4	2
265	Reorientation of $\pi$ -conjugated molecules on few-layer MoS films. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 3097-3104	3.6	8
264	Real-time tracking of the self-assembled growth of a 3D Ge quantum dot lattice in an alumina matrix. <i>Journal of Applied Crystallography</i> , <b>2020</b> , 53, 1029-1038	3.8	1
263	Novel highly substituted thiophene-based n-type organic semiconductor: structural study, optical anisotropy and molecular control. <i>CrystEngComm</i> , <b>2020</b> , 22, 7095-7103	3.3	1
262	Langmuir films of low-dimensional nanomaterials. <i>Advances in Colloid and Interface Science</i> , <b>2020</b> , 283, 102239	14.3	6
261	Uniaxial strengthening of the polyamide film by the aligned carbon nanotubes. <i>Materials Today Communications</i> , <b>2020</b> , 25, 101432	2.5	1
260	Collapse Mechanism in Few-Layer MoS2 Langmuir Films. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 15856-15864	3.8	1

259	Langmuir-Scheaffer Technique as a Method for Controlled Alignment of 1D Materials. <i>Langmuir</i> , <b>2020</b> , 36, 4540-4547	4	7
258	An elevated concentration of MoS lowers the efficacy of liquid-phase exfoliation and triggers the production of MoO nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 12396-12405	3.6	8
257	Exploiting the potential of beam-compressing channel-cut monochromators for laboratory high-resolution small-angle X-ray scattering experiments. <i>Journal of Applied Crystallography</i> , <b>2019</b> , 52, 498-506	3.8	4
256	Tailoring the interparticle distance in Langmuir nanoparticle films. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 9553-9563	3.6	5
255	Characterization of the chips generated by the nanomachining of germanium for X-ray crystal optics. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 102, 2757-2767	3.2	2
254	Effect of the doping of PC61BM electron transport layer with carbon nanodots on the performance of inverted planar MAPbI <sub>3</sub> perovskite solar cells. <i>Solar Energy</i> , <b>2019</b> , 189, 426-434	6.8	13
253	Tailored Langmuir-Schaefer Deposition of Few-Layer MoS Nanosheet Films for Electronic Applications. <i>Langmuir</i> , <b>2019</b> , 35, 9802-9808	4	14
252	Diindenoperylene thin-film structure on MoS <sub>2</sub> monolayer. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 251906	3.4	10
251	Highly Crystalline MoS <sub>2</sub> Thin Films Fabricated by Sulfurization. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1900342	1.3	2
250	Graphene Langmuir-Schaefer films Decorated by Pd Nanoparticles for NO <sub>2</sub> and H <sub>2</sub> Gas Sensors. <i>Measurement Science Review</i> , <b>2019</b> , 19, 64-69	1.7	4
249	Response of alumina resistance to trace concentrations of acetone vapors at room temperature. <i>Journal of Electrical Engineering</i> , <b>2019</b> , 70, 122-126	0.6	3
248	Cross-sectional TEM study of subsurface damage in SPDT machining of germanium optics. <i>Applied Optics</i> , <b>2018</b> , 57, 1940-1943	1.7	6
247	Finishing of Ge nanomachined surfaces for X-ray crystal optics. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 96, 3603-3617	3.2	3
246	Thickness Effect on Structural Defect-Related Density of States and Crystallinity in P3HT Thin Films on ITO Substrates. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5881-5887	3.8	15
245	On the formation of hydrophobic carbon quantum dots Langmuir films and their transfer onto solid substrates. <i>Diamond and Related Materials</i> , <b>2018</b> , 83, 170-176	3.5	9
244	Chemical Oxidation of Graphite: Evolution of the Structure and Properties. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 929-935	3.8	30
243	Effect of etching time on structure of p-type porous silicon. <i>Applied Surface Science</i> , <b>2018</b> , 461, 44-47	6.7	10
242	Label-free tracking of nanosized graphene oxide cellular uptake by confocal Raman microscopy. <i>Analyst, The</i> , <b>2018</b> , 143, 3686-3692	5	11

241	Differently sintered TiO <sub>x</sub> hole blocking layers for solution processed solar cells. <i>Applied Surface Science</i> , <b>2018</b> , 461, 54-60	6.7	2
240	Real-Time Monitoring of Growth and Orientational Alignment of Pentacene on Epitaxial Graphene for Organic Electronics. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 2819-2826	5.6	15
239	Kinetics of copper growth on graphene revealed by time-resolved small-angle x-ray scattering. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	6
238	Kinetics of Polymer-Fullerene Phase Separation during Solvent Annealing Studied by Table-Top X-ray Scattering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 8241-8247	9.5	6
237	Fast low-temperature plasma reduction of monolayer graphene oxide at atmospheric pressure. <i>Nanotechnology</i> , <b>2017</b> , 28, 145601	3.4	20
236	Effect of crystallinity on UV degradability of poly[methyl(phenyl)silane] by energy-resolved electrochemical impedance spectroscopy. <i>AIP Advances</i> , <b>2017</b> , 7, 055002	1.5	4
235	Palladium/Fe <sub>2</sub> O <sub>3</sub> nanoparticle mixtures for acetone and NO <sub>2</sub> gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 243, 895-903	8.5	27
234	Thermal stability of Fe <sub>2</sub> O <sub>3</sub> nanoparticles and their employment for sensing of acetone vapours. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 939, 012009	0.3	3
233	Cyclopean gauge factor of the strain-resistance transduction of indium oxide films. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2016</b> , 108, 012043	0.4	3
232	Waste heat recovery in solid-state lighting based on thin film thermoelectric generators. <i>Sustainable Energy Technologies and Assessments</i> , <b>2016</b> , 18, 1-5	4.7	2
231	In Situ X-Ray Reciprocal Space Mapping for Characterization of Nanomaterials <b>2016</b> , 507-544		0
230	Nano-machining for advanced X-ray crystal optics <b>2016</b> ,		3
229	Real-time SAXS study of a strain gauge based on a self-assembled gold nanoparticle monolayer. <i>Sensors and Actuators A: Physical</i> , <b>2016</b> , 241, 87-95	3.9	4
228	Reliable determination of the few-layer graphene oxide thickness using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2016</b> , 47, 391-394	2.3	41
227	Few-layer Graphene Langmuir-schaefer Nanofilms for H <sub>2</sub> Gas Sensing. <i>Procedia Engineering</i> , <b>2016</b> , 168, 243-246		2
226	Towards high-flux X-ray beam compressing channel-cut monochromators. <i>Journal of Applied Crystallography</i> , <b>2016</b> , 49, 1885-1892	3.8	5
225	Colossal strain-resistance transduction of indium oxide films. <i>Thin Solid Films</i> , <b>2016</b> , 616, 27-33	2.2	
224	Evaluation of low-cadmium ZnCdSeS alloyed quantum dots for remote phosphor solid-state lighting technology. <i>Applied Optics</i> , <b>2015</b> , 54, 7094-8	0.2	5

223	Calculations and surface quality measurements of high-asymmetry angle x-ray crystal monochromators for advanced x-ray imaging and metrological applications. <i>Optical Engineering</i> , <b>2015</b> , 54, 035101	1.1	4
222	In-situ GISAXS monitoring of ultrashort period W/B4C multilayer x-ray mirror growth <b>2015</b> ,		4
221	A Brief History of Nanoscience and Foresight in Nanotechnology. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , <b>2015</b> , 63-86	0.3	5
220	Towards organic solar cells without the hole transporting layer on the plasmon-enhanced ITO electrode. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2015</b> , 212, 867-876	1.6	2
219	Reassembly and Oxidation of a Silver Nanoparticle Bilayer Probed by in Situ X-ray Reciprocal Space Mapping. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 7195-7201	3.8	3
218	A non-equilibrium transient phase revealed by in situ GISAXS tracking of the solvent-assisted nanoparticle self-assembly. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	1
217	Towards new multifunctional coatings for organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 125, 127-132	6.4	12
216	Application of the paracrystal model to GISAXS analysis of the 3D self-assembled nanoparticle crystals. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 1169-1177	1.3	2
215	Nitrogen Dioxide and Acetone Sensors Based on Iron Oxide Nanoparticles. <i>Key Engineering Materials</i> , <b>2014</b> , 605, 318-321	0.4	1
214	The benefit of the European User Community from transnational access to national radiation facilities. <i>Journal of Synchrotron Radiation</i> , <b>2014</b> , 21, 638-9	2.4	0
213	Preparation of sterically stabilized gold nanoparticles for plasmonic applications. <i>Chemical Papers</i> , <b>2013</b> , 67,	1.9	6
212	Preparation of gold nanoparticles for plasmonic applications. <i>Thin Solid Films</i> , <b>2013</b> , 543, 138-141	2.2	17
211	Potential use of V-channel Ge(220) monochromators in X-ray metrology and imaging. <i>Journal of Applied Crystallography</i> , <b>2013</b> , 46, 945-952	3.8	6
210	Extreme X-ray beam compression for a high-resolution table-top grazing-incidence small-angle X-ray scattering setup. <i>Journal of Applied Crystallography</i> , <b>2013</b> , 46, 1544-1550	3.8	7
209	Process-induced inhomogeneities in higher asymmetry angle x-ray monochromators <b>2013</b> ,		2
208	Nitric Dioxide and Acetone Sensors Based on Iron Oxide Nanoparticles. <i>Sensor Letters</i> , <b>2013</b> , 11, 2322-2326		7
207	Oxide nanoparticle arrays for sensors of CO and NO <sub>2</sub> gases. <i>Vacuum</i> , <b>2012</b> , 86, 590-593	3.7	11
206	GISAXS analysis of 3D nanoparticle assemblies--effect of vertical nanoparticle ordering. <i>Nanotechnology</i> , <b>2012</b> , 23, 045704	3.4	16

205	Nanoparticle Langmuir-Blodgett Arrays for Sensing of CO and NO <sub>2</sub> Gases. <i>Physics Procedia</i> , <b>2012</b> , 32, 152-156		1
204	Nonequilibrium phases of nanoparticle Langmuir films. <i>Langmuir</i> , <b>2012</b> , 28, 10409-14	4	29
203	Silver nanoparticle monolayer-to-bilayer transition at the air/water interface as studied by the GISAXS technique: application of a new paracrystal model. <i>Langmuir</i> , <b>2012</b> , 28, 9395-404	4	23
202	Self-Assembly of Nanoparticles at Solid and Liquid Surfaces <b>2012</b> ,		4
201	Scanning magneto-optical Kerr microscope with auto-balanced detection scheme. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 083706	1.7	4
200	Behavior of giant magnetoresistance in Co <sub>2</sub> Fe <sub>2</sub> O <sub>4</sub> pseudo spin-valves after magnetic annealing. <i>Thin Solid Films</i> , <b>2011</b> , 520, 667-673	2.2	6
199	In situ GISAXS monitoring of Langmuir nanoparticle multilayer degradation processes induced by UV photolysis. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2011</b> , 208, 2629-2634	1.6	10
198	Towards strain gauges based on a self-assembled nanoparticle monolayer--SAXS study. <i>Nanotechnology</i> , <b>2010</b> , 21, 385702	3.4	30
197	Kinetics of nanoparticle reassembly mediated by UV-photolysis of surfactant. <i>Langmuir</i> , <b>2010</b> , 26, 5451-54		17
196	Structure and microstructure of EB-PVD yttria thin films grown on Si (111) substrate. <i>Vacuum</i> , <b>2010</b> , 85, 535-540	3.7	3
195	On ultra-thin oxide/Si and very-thin oxide/Si structures prepared by wet chemical process. <i>Applied Surface Science</i> , <b>2010</b> , 256, 5757-5764	6.7	6
194	Interface study of a high-performance W/B4C X-ray mirror. <i>Journal of Applied Crystallography</i> , <b>2010</b> , 43, 1431-1439	3.8	17
193	On Similar Electrical, Optical and Structural Properties of MOS Structures Prepared on a-Si:H/c-Si, Porous Silicon/c-Si, and c-Si. <i>Materials Science Forum</i> , <b>2009</b> , 609, 11-25	0.4	
192	Relationship between effective ionic radii, structure and electro-mechanical properties of zirconia stabilized with rare earth oxides M <sub>2</sub> O <sub>3</sub> (M = Yb, Y, Sm). <i>Journal of Materials Science</i> , <b>2009</b> , 44, 234-243	4.3	9
191	Real-time tracking of nanoparticle self-assembling using GISAXS. <i>Superlattices and Microstructures</i> , <b>2009</b> , 46, 286-290	2.8	4
190	Characterization of Mo/Si soft X-ray multilayer mirrors by grazing-incidence small-angle X-ray scattering. <i>Vacuum</i> , <b>2009</b> , 84, 19-25	3.7	24
189	Structural characteristics and morphology of Sm <sub>x</sub> Ce <sub>1-x</sub> O <sub>2</sub> /2 thin films. <i>Applied Surface Science</i> , <b>2009</b> , 255, 9085-9091	6.7	8
188	Structure and electrical conductivity of multicomponent metal oxides having scheelite structure. <i>Russian Journal of Electrochemistry</i> , <b>2009</b> , 45, 621-629	1.2	21

187	Annealing behaviour of structural and magnetic properties of evaporated Co thin films. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 135406	3	21
186	Fabrication and Characterization of Hybrid Tunnel Magnetoresistance Structures with Embedded Self-Assembled Nanoparticle Templates. <i>Acta Physica Polonica A</i> , <b>2009</b> , 115, 332-335	0.6	2
185	On determination of properties of ultrathin and very thin silicon oxide layers by FTIR and X - ray reflectivity. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1066, 1		0
184	Reproducibility in X-ray reflectometry: results from the first world-wide round-robin experiment. <i>Journal of Applied Crystallography</i> , <b>2008</b> , 41, 143-152	3.8	36
183	Real-time tracking of superparamagnetic nanoparticle self-assembly. <i>Small</i> , <b>2008</b> , 4, 2222-8	11	23
182	The international VAMAS project on X-ray reflectivity measurements for evaluation of thin films and multilayers [Preliminary results from the second round-robin. <i>Thin Solid Films</i> , <b>2008</b> , 516, 7962-7966	2.2	12
181	Passivation of defect states in Si-based and GaAs structures. <i>Applied Surface Science</i> , <b>2008</b> , 254, 8059-8066		3
180	Multilayers with Ultra-Short Periods <b>2008</b> , 389-406		2
179	On interface properties of ultra-thin and very-thin oxide/a-Si:H structures prepared by oxygen based plasmas and chemical oxidation. <i>Applied Surface Science</i> , <b>2007</b> , 253, 6697-6715	6.7	1
178	Structure and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Materials Science and Engineering C</i> , <b>2007</b> , 27, 1415-1417	8.3	19
177	Effect of composition changes on properties and defect structure of crystalline Sm-doped ZrO <sub>2</sub> . <i>Russian Journal of Electrochemistry</i> , <b>2007</b> , 43, 381-389	1.2	5
176	Influence of annealing on the critical temperature of Bi <sub>1-x</sub> B <sub>x</sub> Br <sub>1-x</sub> Te <sub>x</sub> thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2007</b> , 18, 1167-1170	2.1	2
175	Self-assembly of iron oxide nanoparticles studied by time-resolved grazing-incidence small-angle x-ray scattering. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	30
174	Correlation between x-ray reciprocal space maps and magnetic properties of current-induced magnetization switching pseudospin valve structures. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 033538	2.5	1
173	Intrinsic anomalous surface roughening of TiN films deposited by reactive sputtering. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	52
172	On a presence of Si <sub>m</sub> H <sub>n</sub> clusters in a-Si:H/c-Si structures. <i>Applied Surface Science</i> , <b>2006</b> , 252, 7722-7725	6.7	6
171	Passivation of Si and a-Si:H surfaces by thin oxide and oxy-nitride layers. <i>Applied Surface Science</i> , <b>2006</b> , 252, 7713-7721	6.7	2
170	Nanometer-scale period Sc/Cr multilayer mirrors and their thermal stability. <i>Thin Solid Films</i> , <b>2006</b> , 497, 115-120	2.2	12

169	Growth dynamics of reactive-sputtering-deposited AlN films. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 12352-5	2.5	35
168	UV sub-ps laser pulse patterning of Mo/Si and W/Si multilayers for soft x-ray gratings <b>2005</b> , 5850, 264		
167	Giant magnetoresistance in evaporated nanometer scale Fe/W and Co/W multilayers. <i>Applied Surface Science</i> , <b>2005</b> , 243, 62-67	6.7	6
166	Growth of gadolinium oxide films for advanced MOS structure. <i>Microelectronic Engineering</i> , <b>2005</b> , 80, 154-157	2.5	19
165	Investigation of electrical, structural, and optical properties of very thin oxide/a-Si:H/c-Si interfaces passivated by cyanide treatment <b>2004</b> , 5774, 481		1
164	Elemental depth profiles of MgB <sub>2</sub> /Si precursor and superconducting films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 219-220, 768-772	1.2	
163	Growth of lanthanum oxide films for application as a gate dielectric in CMOS technology. <i>Materials Science in Semiconductor Processing</i> , <b>2004</b> , 7, 231-236	4.3	29
162	Raman scattering study of phonons in Bi-based superconductor thin films. <i>Physica C: Superconductivity and Its Applications</i> , <b>2004</b> , 416, 11-16	1.3	1
161	Structure and morphology evolution of ALN films grown by DC sputtering. <i>Surface and Coatings Technology</i> , <b>2004</b> , 180-181, 140-144	4.4	40
160	Photoluminescence, structural and electrical properties of passivated a-Si:H based thin films and corresponding solar cells. <i>Applied Surface Science</i> , <b>2004</b> , 235, 351-363	6.7	4
159	X-ray and optical investigation of KCN and HCN passivated structures based on amorphous silicon. <i>Applied Surface Science</i> , <b>2004</b> , 235, 364-371	6.7	
158	RBS characterization of MgB <sub>2</sub> superconducting films annealed ex situ and in situ. <i>Superconductor Science and Technology</i> , <b>2003</b> , 16, 879-884	3.1	7
157	Thin Film Electrolytes: Yttria Stabilized Zirconia and Ceria. <i>Russian Journal of Electrochemistry</i> , <b>2003</b> , 39, 478-486	1.2	4
156	Sub-ps laser microstructuring of soft X-ray Mo/Si multilayer gratings. <i>Applied Physics A: Materials Science and Processing</i> , <b>2003</b> , 76, 763-766	2.6	1
155	Low-energy particle treatment of GaAs surface. <i>Thin Solid Films</i> , <b>2003</b> , 433, 108-113	2.2	2
154	TiN/AlN bilayers and multilayers grown by magnetron co-sputtering. <i>Thin Solid Films</i> , <b>2003</b> , 433, 211-216	2.2	12
153	Study of the superconducting MgB <sub>2</sub> films by ion beam analysis methods. <i>Thin Solid Films</i> , <b>2003</b> , 433, 103-107	2.2	3
152	Photoluminescence properties of a-Si:H based thin films and corresponding solar cells. <i>Thin Solid Films</i> , <b>2003</b> , 433, 344-351	2.2	3



151	Intermixing at interfaces of KrF laser irradiated Co/W multilayers. <i>Applied Surface Science</i> , <b>2003</b> , 208-209, 394-398	6.7	8
150	Composition depth profiles of superconducting MgB <sub>2</sub> thin films determined by ion beam analysis methods. <i>Physica C: Superconductivity and Its Applications</i> , <b>2003</b> , 383, 287-294	1.3	10
149	The current test results for two models of HTS cables on CASAT project. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2003</b> , 13, 1964-1967	1.8	7
148	The Effect of (Ba/Sr) Substitution on Tl-Based Superconducting Thin Films Prepared from Fluoride Precursors. <i>Solid State Phenomena</i> , <b>2003</b> , 90-91, 571-576	0.4	
147	Intermixing at interfaces of Fe/W multilayers. <i>Materials Science and Engineering C</i> , <b>2002</b> , 19, 139-143	8.3	10
146	Excimer laser-induced intermixing in irradiated Co/Ag nanometric bilayers and trilayers. <i>Materials Science and Engineering C</i> , <b>2002</b> , 19, 145-149	8.3	2
145	Raman study on Bi <sub>2</sub> PbSrCaCuO superconductor thin films grown by spray pyrolysis on several types of substrate. <i>Thin Solid Films</i> , <b>2002</b> , 414, 123-128	2.2	1
144	About an influence of Ar ion beam of very low energy on a-Si:H properties. <i>Vacuum</i> , <b>2002</b> , 67, 149-153	3.7	2
143	Properties of semiconductor surfaces covered with very thin insulating overlayers prepared by impacts of low-energy particles. <i>Vacuum</i> , <b>2002</b> , 67, 131-141	3.7	5
142	Laser-irradiation-induced diffusion in metallic multilayers <b>2002</b> , 4762, 75		
141	Effect of substrate heating and ion beam polishing on the interface quality in Mo/Si multilayers X-ray comparative study. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 305, 14-20	2.8	9
140	Study of the fluorine content in precursor and Tl-based thin films by resonant nuclear reaction method. <i>Physica C: Superconductivity and Its Applications</i> , <b>2001</b> , 354, 353-357	1.3	4
139	Influence of substrate and precursor film composition on morphology and superconducting transition of Tl-2212 thin films characterized by microwaves. <i>Physica C: Superconductivity and Its Applications</i> , <b>2001</b> , 354, 429-432	1.3	8
138	Ohmic resistance of thin yttria stabilized zirconia film and electrode/electrolyte contact area. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2001</b> , 84, 167-175	3.1	10
137	The thermal stability of tungsten/silicon multilayered nanostructures. <i>Materials Science and Engineering C</i> , <b>2001</b> , 15, 187-189	8.3	1
136	Magnetization and Magnetic Anisotropy of Co/W Multilayers. <i>Physica Status Solidi (B): Basic Research</i> , <b>2001</b> , 225, 449-457	1.3	8
135	Coplanar and non-coplanar x-ray reflectivity characterization of lateral W/Si multilayer gratings. <i>Journal Physics D: Applied Physics</i> , <b>2001</b> , 34, A188-A192	3	32
134	9 MeV Au ion implantation into Ti and Ti-6Al-4V. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 503-510	4.3	15

133	Co/Si/W/Si Multilayers with Enhanced Thermal Stability for Soft X-Ray and UV Optics. <i>Materials Science Forum</i> , <b>2001</b> , 378-381, 364-369	0.4	
132	Ion beam studies of Tl-based superconducting films prepared from fluorides. <i>Superconductor Science and Technology</i> , <b>2001</b> , 14, 90-95	3.1	3
131	Direct control of medium range order in a Ni modified Finemet-type alloy. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 167-170	3.9	4
130	Interface study of a Co/Si/W/Si multilayer with enhanced thermal stability. <i>Journal of Applied Crystallography</i> , <b>2000</b> , 33, 753-757	3.8	1
129	Metal oxide/silicon oxide multilayer with smooth interfaces produced by in situ controlled plasma-enhanced MOCVD. <i>Thin Solid Films</i> , <b>2000</b> , 358, 90-93	2.2	13
128	Structure and in-depth concentrations in excimer laser irradiated Pb/Cu codeposited films. <i>Thin Solid Films</i> , <b>2000</b> , 359, 141-145	2.2	5
127	Rutherford backscattering analysis of Bi-based superconducting films. <i>Thin Solid Films</i> , <b>2000</b> , 373, 117-121	2.2	4
126	Bi/Pb/Bi/Cu/Ta/TaO <sub>2</sub> /MgO superconducting thin films. <i>Thin Solid Films</i> , <b>2000</b> , 373, 122-128	2.2	6
125	Preparation and properties of precursor Ba/Cu/TaO <sub>2</sub> (F) thin films deposited from fluorides for superconducting Tl- and Hg-based films. <i>Thin Solid Films</i> , <b>2000</b> , 373, 129-133	2.2	6
124	Structure of Ag/Co multilayers on excimer laser irradiation. <i>Thin Solid Films</i> , <b>2000</b> , 373, 216-221	2.2	3
123	On structural and thermal relaxation in non-crystalline Zr/NiAl alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2000</b> , 278, 27-35	5.3	8
122	Low-energy argon ion beam treatment of a-Si:H/Si structure. <i>Applied Surface Science</i> , <b>2000</b> , 166, 61-66	6.7	1
121	Influence of the plasma pretreatment of GaAs(100) and Si(100) surfaces on the optical and structural properties of Si <sub>3</sub> N <sub>4</sub> /GaAs and a-SiGe/Si interfaces. <i>Applied Surface Science</i> , <b>2000</b> , 166, 72-76	6.7	2
120	On light-related electrical properties of porous silicon/crystalline silicon structure. <i>Applied Surface Science</i> , <b>2000</b> , 166, 67-71	6.7	
119	Very thin insulating layer formed by low-energy Ar-beam bombardment in the surface region of undoped hydrogenated amorphous silicon. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1783	3.4	11
118	Effect of Ion-Beam Polishing on the Interface Quality in a Ti/C Multilayer Mirror for Water Window. <i>Materials Science Forum</i> , <b>2000</b> , 321-324, 184-191	0.4	
117	Structural characterization of lamellar multilayer gratings by x-ray reflectivity and scanning electron microscopy. <i>Journal Physics D: Applied Physics</i> , <b>1999</b> , 32, A220-A223	3	10
116	Tl-based films grown on silver tape substrates. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1999</b> , 9, 1791-1793	1.8	

115	Characterization of ceria/yttria stabilized zirconia grown on silicon substrate. <i>Thin Solid Films</i> , <b>1999</b> , 345, 330-337	2.2	7
114	Structural and electrical properties of double-layer ceria/yttria stabilized zirconia deposited on silicon substrate. <i>Solid State Ionics</i> , <b>1999</b> , 119, 85-90	3.3	6
113	Thermal behaviour of Co/Si/W/Si multilayers under high intensity excimer laser pulses. <i>Applied Surface Science</i> , <b>1999</b> , 138-139, 477-481	6.7	1
112	Effects of cobalt thin films on the a-Si crystallisation induced by excimer laser irradiation. <i>Applied Surface Science</i> , <b>1999</b> , 138-139, 145-149	6.7	1
111	Thermal behaviour of Co/Si/W/Si multilayers under rapid thermal annealing. <i>Applied Surface Science</i> , <b>1999</b> , 150, 178-184	6.7	4
110	Structural characterization of a lamellar W/Si multilayer grating. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 1225-1227	2.5	9
109	The metastability of porous silicon/crystalline silicon structure. <i>Thin Solid Films</i> , <b>1999</b> , 343-344, 277-280	2.2	8
108	X-ray photoemission and photoreflectance study of Au/ultrathin Si/n-GaAs Schottky contacts and hydrogen plasma treated semi-insulating GaAs surfaces. <i>Thin Solid Films</i> , <b>1999</b> , 343-344, 328-331	2.2	1
107	Intermixing in immiscible Co/Ag/Co trilayers under XeCl laser annealing. <i>Thin Solid Films</i> , <b>1999</b> , 343-344, 206-209	2.2	6
106	Formation of granular-like structure of Ag/Co multilayers by excimer laser irradiation. <i>Thin Solid Films</i> , <b>1999</b> , 343-344, 214-217	2.2	3
105	Modification of the high-doped GaAs surface region by its exposure to 150 keV proton beam. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 149, 81-88	1.2	2
104	Structure and giant magnetoresistance of laser irradiated Ag/Co multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 198-199, 43-45	2.8	3
103	Tl-Based Superconducting Films Prepared by Spray Pyrolysis and Vacuum Evaporation. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1998</b> , 11, 63-64		1
102	Flux-Creep Mechanism of Critical Current Limitation in Tl-Based Thin Film Microstrips. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1998</b> , 11, 65-66		
101	Characterization of yttria-stabilized zirconia thin films deposited by electron beam evaporation on silicon substrates. <i>Journal of Materials Science</i> , <b>1998</b> , 33, 969-975	4.3	23
100	Correlation between the Tl concentration depth profiles and the thallination time in Tl <sub>1-x</sub> Ba <sub>x</sub> Ca <sub>2</sub> Cu <sub>2</sub> O <sub>7</sub> superconducting films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1998</b> , 136-138, 1300-1305	1.2	1
99	Optical properties of Co and Co-Fe-Cr thin films deposited from an aerosol on glass substrates. <i>Materials Chemistry and Physics</i> , <b>1998</b> , 56, 21-26	4.4	4
98	Surface Quality of Epitaxial CeO <sub>2</sub> Thin Films Grown on Sapphire by Aerosol MOCVD. <i>Chemical Vapor Deposition</i> , <b>1998</b> , 04, 216-220		12

97	Giant magnetoresistance in Ag/Co multilayers irradiated by excimer laser. <i>Thin Solid Films</i> , <b>1998</b> , 312, 15-19	2.2	12
96	X-ray scattering study of interface roughness correlation in Mo/Si and Ti/C multilayers for X-UV optics. <i>Physica B: Condensed Matter</i> , <b>1998</b> , 253, 28-39	2.8	13
95	Tl <sub>2</sub> Ba <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> superconducting films deposited by aerosol and their hysteretic ac losses. <i>Physica C: Superconductivity and Its Applications</i> , <b>1998</b> , 298, 166-172	1.3	
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93	Application of the Distorted-Wave Born Approximation to Interface Characterization in W/Si Multilayer Thin Films. <i>Materials Science Forum</i> , <b>1998</b> , 278-281, 454-459	0.4	
92	Improvement of giant magnetoresistance in granular Ag-Co films by excimer laser processing <b>1998</b> ,		1
91	Improvement of giant magnetoresistance in Ag/Co multilayers by excimer laser processing <b>1998</b> , 3404, 224		
90	Thermal stability of W <sub>1-x</sub> Si <sub>x</sub> /Si multilayers under rapid thermal annealing. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 2229-2235	2.5	8
89	Preliminary studies of thin metal oxide films prepared by deposition of an aerosol generated ultrasonically from aqueous nitrate solutions. <i>Thin Solid Films</i> , <b>1997</b> , 305, 157-163	2.2	5
88	Influence of thallination conditions upon properties of TBCCO films deposited from an aerosol. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 282-287, 637-638	1.3	1
87	Influence of processing conditions of Tl-2212 superconducting films deposited from an aerosol upon their T <sub>c</sub> and oxygen Raman modes. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 288, 64-70	1.3	2
86	Ion beam analysis of HTc superconducting Tl-based films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1997</b> , 122, 677-684	1.2	6
85	Interface study of W/Si multilayers with increasing number of periods. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , <b>1997</b> , 19, 439-445		1
84	Properties of Tl-based thin films and thin film microstrips deposited by evaporation of BaF <sub>2</sub> , CaF <sub>2</sub> and Cu components. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 282-287, 639-640	1.3	
83	The relation between the bulk and ribbon Zr <sub>55</sub> Ni <sub>25</sub> Al <sub>20</sub> metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 226-228, 388-392	5.3	18
82	Interface Evolution in a W/Si Multilayer after Rapid Thermal Annealing Studied by X-ray Reflectivity and Diffuse Scattering. <i>Journal of Applied Crystallography</i> , <b>1997</b> , 30, 642-646	3.8	9
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80	The influence of the inductively-coupled hydrogen plasma on the GaAs surface properties. <i>Thin Solid Films</i> , <b>1997</b> , 299, 136-142	2.2	3

79	Metal oxide Co and Co-Fe-Cr films deposited on glass substrates from a metal-organic aerosol atomised by means of ultrasonic excitations. <i>Thin Solid Films</i> , <b>1997</b> , 305, 210-218	2.2	9
78	Giant magnetoresistance in granular Ag <sub>2</sub> O films irradiated by excimer laser. <i>Thin Solid Films</i> , <b>1997</b> , 311, 15-22	2.2	8
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75	Interface roughness correlation in tungsten/silicon multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1996</b> , 156, 117-118	2.8	
74	Thermal stability of Co/Si/W/Si multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1996</b> , 156, 415-416	2.8	2
73	Analysis of stoichiometry of high-T <sub>c</sub> superconducting films by RBS and PIXE methods. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1996</b> , 118, 602-607	1.2	1
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70	Anomaly in the growth rate of anodic oxide films due to the presence of a (Sm + Sm <sub>2</sub> O <sub>3</sub> ) overlayer at a GaAs surface. <i>Thin Solid Films</i> , <b>1996</b> , 272, 21-28	2.2	
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68	Plasma anodic oxidation of semiinsulating GaAs. <i>Applied Surface Science</i> , <b>1996</b> , 93, 119-130	6.7	1
67	Intermixing in immiscible molybdenum/copper multilayered metallization under excimer laser irradiation. <i>Applied Surface Science</i> , <b>1996</b> , 106, 243-246	6.7	5
66	Influence of deposition and annealing parameters on some properties of YBCO films prepared by spray pyrolysis. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1996</b> , 9, 101-111		3
65	Pulsed Excimer Laser Crystallization of Evaporated Amorphous Silicon Films. The Role of SiO <sub>2</sub> Underlayer Thickness. <i>Physica Status Solidi A</i> , <b>1996</b> , 154, 647-656		
64	Thermal stability of multilayer reflective coatings under high intensity excimer laser pulses. <i>Applied Surface Science</i> , <b>1996</b> , 106, 166-170	6.7	5
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60	Interface study of W-Si/Si and obliquely deposited W/Si multilayers by grazing-incidence high-resolution X-ray diffraction. <i>Journal Physics D: Applied Physics</i> , <b>1995</b> , 28, A241-A245	3	9
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58	Influence of temperature time and depth profiles on the pulsed XeCl laser crystallization of evaporated silicon films. <i>Journal of Non-Crystalline Solids</i> , <b>1995</b> , 192-193, 513-518	3.9	
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55	Characterization of obliquely deposited tungsten/silicon multilayers. <i>Thin Solid Films</i> , <b>1994</b> , 238, 295-301	2.2	5
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53	Distribution of fluorine in YBCO thin films prepared by BaF <sub>2</sub> technique. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 230, 82-88	1.3	9
52	Commensurate vortex lattice in superconducting Nb/Ti multilayers. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 229, 231-238	1.3	10
51	Critical fields of W/Si multilayers. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 225, 262-268	1.3	5
50	The influence of thermal processing on structural and electrical properties of W <sub>x</sub> Si <sub>1-x</sub> /Si multilayers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1994</b> , 350, 379-390	1.2	
49	Formation of anodic plasma oxides on InP, GaAs and Si through Al and Sm overlayers. <i>Applied Surface Science</i> , <b>1994</b> , 78, 239-248	6.7	
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40	Thin BSCCO films prepared by deposition from aerosol. <i>Superconductor Science and Technology</i> , <b>1992</b> , 5, 663-670	3.1	10
39	Thin YBCO films prepared by low-temperature spray pyrolysis. <i>Superconductor Science and Technology</i> , <b>1992</b> , 5, 225-230	3.1	30
38	Superconductivity of tungsten-silicon multilayers. <i>Physica C: Superconductivity and Its Applications</i> , <b>1992</b> , 197, 35-41	1.3	20
37	Doping of Bi-Sr-Ca-Cu-O superconductors with Pb, Sn and Ag. <i>Bulletin of Materials Science</i> , <b>1991</b> , 14, 309-314	3.4	1
36	Preparation of thin epitaxial multilayer YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> (Ag) films by aerosol deposition. <i>Bulletin of Materials Science</i> , <b>1991</b> , 14, 485-491	1.7	9
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29	Compositional dependence of magnetostriction of amorphous Co <sub>70</sub> Fe <sub>30</sub> B and Co <sub>70</sub> Ni <sub>30</sub> B alloys. <i>Materials Science and Engineering</i> , <b>1988</b> , 99, 109-112		12
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24	Effect of some preparation conditions upon properties of sputtered Nb <sub>3</sub> Ge films. <i>European Physical Journal D</i> , <b>1983</b> , 33, 1035-1046		3
23	Anomalous pinning behaviour in thin Nb <sub>3</sub> Ge films. <i>European Physical Journal D</i> , <b>1982</b> , 32, 1374-1383		3
22	Influence of oxygen content on some properties of Nb <sub>3</sub> Sn tape used for superconducting transmission lines. <i>Journal of Materials Science</i> , <b>1982</b> , 17, 1579-1584	4.3	4
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