

Jindrich Musil

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289
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299
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ext. citations

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L-index

#	Paper	IF	Citations
289	Hard and superhard nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2000 , 125, 322-330	4.4	863
288	Relationships between hardness, Young's modulus and elastic recovery in hard nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2002 , 154, 304-313	4.4	484
287	Hard nanocomposite coatings: Thermal stability, oxidation resistance and toughness. <i>Surface and Coatings Technology</i> , 2012 , 207, 50-65	4.4	454
286	Reactive magnetron sputtering of thin films: present status and trends. <i>Thin Solid Films</i> , 2005 , 475, 208-218		276
285	Toughness of hard nanostructured ceramic thin films. <i>Surface and Coatings Technology</i> , 2007 , 201, 5148-5152	4.4	258
284	Superhard nanocomposite Ti _{1-x} Al _x N films prepared by magnetron sputtering. <i>Thin Solid Films</i> , 2000 , 365, 104-109	2.2	228
283	Magnetron sputtering of hard nanocomposite coatings and their properties. <i>Surface and Coatings Technology</i> , 2001 , 142-144, 557-566	4.4	183
282	ZrN/Cu nanocomposite film – novel superhard material. <i>Surface and Coatings Technology</i> , 1999 , 120-121, 179-183	4.4	178
281	A comparative study on reactive and non-reactive unbalanced magnetron sputter deposition of TiN coatings. <i>Thin Solid Films</i> , 2002 , 415, 151-159	2.2	168
280	Microstructure and properties of nanocomposite TiB ₂ N and TiB ₂ C coatings. <i>Surface and Coatings Technology</i> , 1999 , 120-121, 405-411	4.4	158
279	Low-energy (~100 eV) ion irradiation during growth of TiN deposited by reactive magnetron sputtering: Effects of ion flux on film microstructure. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1991 , 9, 434-438	2.9	152
278	Flexible hard nanocomposite coatings. <i>RSC Advances</i> , 2015 , 5, 60482-60495	3.7	130
277	Structure and properties of hard and superhard Zr _{1-x} Ti _x N nanocomposite coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 289, 189-197	5.3	123
276	Structure-property relationships in single- and dual-phase nanocrystalline hard coatings. <i>Surface and Coatings Technology</i> , 2003 , 174-175, 725-731	4.4	120
275	Hard and superhard Zr _{1-x} Ti _x N nanocomposite films. <i>Surface and Coatings Technology</i> , 2001 , 139, 101-109	4.4	109
274	Thermal stability of PVD hard coatings. <i>Vacuum</i> , 2003 , 71, 279-284	3.7	105
273	Tribological and mechanical properties of nanocrystalline-TiC/a-C nanocomposite thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010 , 28, 244-249	2.9	99

272	Magnetron sputtering of films with controlled texture and grain size. <i>Materials Chemistry and Physics</i> , 1998 , 54, 116-122	4.4	99
271	Pulsed dc Magnetron Discharges and their Utilization in Plasma Surface Engineering. <i>Contributions To Plasma Physics</i> , 2004 , 44, 426-436	1.4	98
270	Thermal stability of alumina thin films containing γ -Al ₂ O ₃ phase prepared by reactive magnetron sputtering. <i>Applied Surface Science</i> , 2010 , 257, 1058-1062	6.7	96
269	Reactive sputtering of TiN films at large substrate to target distances. <i>Vacuum</i> , 1990 , 40, 435-444	3.7	94
268	Low-pressure magnetron sputtering. <i>Vacuum</i> , 1998 , 50, 363-372	3.7	92
267	Low-temperature sputtering of crystalline TiO ₂ films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 521-528	2.9	91
266	Low-stress superhard Ti ₂ B films prepared by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2003 , 174-175, 744-753	4.4	85
265	Structure of TiN coatings deposited at relatively high rates and low temperatures by magnetron sputtering. <i>Thin Solid Films</i> , 1988 , 156, 53-64	2.2	83
264	Hard nanocomposite Zr _{1-x} Ny coatings, correlation between hardness and structure. <i>Surface and Coatings Technology</i> , 2000 , 127, 99-106	4.4	80
263	Ion-assisted sputtering of TiN films. <i>Surface and Coatings Technology</i> , 1990 , 43-44, 259-269	4.4	78
262	New results in d.c. reactive magnetron deposition of TiN _x films. <i>Thin Solid Films</i> , 1988 , 167, 107-120	2.2	77
261	High-power pulsed sputtering using a magnetron with enhanced plasma confinement. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007 , 25, 42-47	2.9	71
260	Magnetron sputtered Cr ₂ Ni ₃ N and Ti ₂ Mo ₃ N films: comparison of mechanical properties. <i>Surface and Coatings Technology</i> , 2001 , 142-144, 146-151	4.4	71
259	Nanocrystalline and nanocomposite CrCu and CrCu ₂ films prepared by magnetron sputtering. <i>Surface and Coatings Technology</i> , 1999 , 115, 32-37	4.4	69
258	Composite TiN _{0.7} Si thin films deposited by reactive magnetron sputter ion-plating. <i>Surface and Coatings Technology</i> , 1998 , 110, 168-172	4.4	65
257	Role of energy in low-temperature high-rate formation of hydrophilic TiO ₂ thin films using pulsed magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007 , 25, 666-674	2.9	65
256	Reactive deposition of tin films using an unbalanced magnetron. <i>Surface and Coatings Technology</i> , 1989 , 39-40, 487-497	4.4	62
255	Hard amorphous nanocomposite coatings with oxidation resistance above 1000°C. <i>Advances in Applied Ceramics</i> , 2008 , 107, 148-154	2.3	61

254	Reactive magnetron sputtering of TiOx films. <i>Surface and Coatings Technology</i> , 2005 , 193, 107-111	4.4	60
253	Pulsed dc magnetron discharge for high-rate sputtering of thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 420-424	2.9	60
252	Sputtering systems with magnetically enhanced ionization for ion plating of TiN films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990 , 8, 1318-1324	2.9	60
251	Hysteresis effect in reactive sputtering: a problem of system stability. <i>Journal Physics D: Applied Physics</i> , 1986 , 19, L187-L190	3	59
250	Arc evaporation of hard coatings: Process and film properties. <i>Surface and Coatings Technology</i> , 1990 , 43-44, 299-311	4.4	56
249	Unbalanced magnetrons and new sputtering systems with enhanced plasma ionization. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1991 , 9, 1171-1177	2.9	56
248	Ion flux characteristics in high-power pulsed magnetron sputtering discharges. <i>Europhysics Letters</i> , 2007 , 77, 45002	1.6	55
247	Composition, structure, microhardness and residual stress of WTiN films deposited by reactive magnetron sputtering. <i>Thin Solid Films</i> , 2002 , 408, 136-147	2.2	54
246	Dependence of microstructure of TiN coatings on their thickness. <i>Thin Solid Films</i> , 1988 , 158, 225-232	2.2	52
245	Hydrophobicity of Thin Films of Compounds of Low-Electronegativity Metals. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2713-2717	3.8	51
244	Nanostructure of photocatalytic TiO2 films sputtered at temperatures below 200°C. <i>Applied Surface Science</i> , 2008 , 254, 3793-3800	6.7	51
243	Structure and mechanical properties of magnetron sputtered ZrTiCuN films. <i>Surface and Coatings Technology</i> , 2003 , 166, 243-253	4.4	51
242	Structure and properties of magnetron sputtered ZrSiN films with a high (25 at.%) Si content. <i>Thin Solid Films</i> , 2005 , 478, 238-247	2.2	51
241	Cathodic arc evaporation in thin film technology. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992 , 10, 1740-1748	2.9	49
240	Recent advances in magnetron sputtering technology. <i>Surface and Coatings Technology</i> , 1998 , 100-101, 280-286	4.4	48
239	Properties of magnetron sputtered AlSiN thin films with a low and high Si content. <i>Surface and Coatings Technology</i> , 2008 , 202, 3485-3493	4.4	48
238	Properties of reactively sputtered WSiN films. <i>Surface and Coatings Technology</i> , 2006 , 200, 3886-3895	4.4	47
237	Magnetron sputtering of alloy and alloy-based films. <i>Thin Solid Films</i> , 1999 , 343-344, 47-50	2.2	47

236	Microwave plasma: its characteristics and applications in thin film technology. <i>Vacuum</i> , 1986 , 36, 161-169.	3.7	47
235	Reactive deposition of hard coatings. <i>Surface and Coatings Technology</i> , 1989 , 39-40, 301-314	4.4	46
234	Structural analysis of tin films by Seemann-Bohlin X-ray diffraction. <i>Thin Solid Films</i> , 1990 , 193-194, 401-408	4.4	46
233	Structure and mechanical properties of DC magnetron sputtered TiC/Cu films. <i>Vacuum</i> , 2006 , 81, 531-538.	3.7	45
232	Structure-hardness relations in sputtered TiAlN films. <i>Thin Solid Films</i> , 2003 , 444, 189-198	2.2	45
231	Formation of nanocrystalline NiCrN films by reactive dc magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998 , 16, 3301-3304	2.9	45
230	TiNx coatings prepared by d.c. reactive magnetron sputtering. <i>Thin Solid Films</i> , 1986 , 136, 229-239	2.2	43
229	Influence of the pumping speed on the hysteresis effect in the reactive sputtering of thin films. <i>Vacuum</i> , 1987 , 37, 729-738	3.7	43
228	Transparent ZrAlO oxide coatings with enhanced resistance to cracking. <i>Surface and Coatings Technology</i> , 2012 , 206, 2105-2109	4.4	42
227	Relation of deposition conditions of Ti-N films prepared by d.c. magnetron sputtering to their microstructure and macrostress. <i>Surface and Coatings Technology</i> , 1993 , 60, 484-488	4.4	42
226	Magnetron sputtering of TiOxNy films. <i>Vacuum</i> , 2006 , 81, 285-290	3.7	41
225	Low pressure magnetron sputtering and self-sputtering discharges. <i>Vacuum</i> , 1996 , 47, 307-311	3.7	41
224	Effect of ion bombardment on properties of hard reactively sputtered Ti(Fe)Nx films. <i>Surface and Coatings Technology</i> , 2004 , 177-178, 289-298	4.4	40
223	X-ray analysis of heat-treated titanium nitride films. <i>Thin Solid Films</i> , 1989 , 170, 201-210	2.2	40
222	Mechanical characterization of a-C:H:SiOx coatings synthesized using radio-frequency plasma-assisted chemical vapor deposition method. <i>Thin Solid Films</i> , 2015 , 590, 299-305	2.2	39
221	A perspective of magnetron sputtering in surface engineering. <i>Surface and Coatings Technology</i> , 1999 , 112, 162-169	4.4	39
220	High-rate magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996 , 14, 2187-2191	2.9	39
219	Comparison of hydrophilic properties of TiO2 thin films prepared by sol-gel method and reactive magnetron sputtering system. <i>Thin Solid Films</i> , 2011 , 519, 6944-6950	2.2	38

218	High-temperature oxidation resistance of TaSiN films with a high Si content. <i>Surface and Coatings Technology</i> , 2006 , 200, 4091-4096	4.4	38
217	Effect of addition of Cu into ZrOx film on its properties. <i>Surface and Coatings Technology</i> , 2006 , 200, 6792-6800	4.4	38
216	Structure and microhardness of magnetron sputtered ZrCu and ZrCu-N films. <i>Vacuum</i> , 1999 , 52, 269-275	3.7	38
215	X-ray analysis of strain in titanium nitride layers. <i>Thin Solid Films</i> , 1987 , 149, 49-60	2.2	38
214	Studies on Magnetron Sputtering Assisted by Inductively Coupled RF Plasma for Enhanced Metal Ionization. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 4291-4295	1.4	37
213	Discharge in dual magnetron sputtering system. <i>IEEE Transactions on Plasma Science</i> , 2005 , 33, 338-339	1.3	36
212	Relationship between mechanical properties and coefficient of friction of sputtered a-C/Cu composite thin films. <i>Diamond and Related Materials</i> , 2008 , 17, 1905-1911	3.5	35
211	Difference in high-temperature oxidation resistance of amorphous ZrSiN and WSiN films with a high Si content. <i>Applied Surface Science</i> , 2006 , 252, 8319-8325	6.7	35
210	Two-phase single layer Al-O-N nanocomposite films with enhanced resistance to cracking. <i>Surface and Coatings Technology</i> , 2012 , 206, 4230-4234	4.4	34
209	Hard a-Si ₃ N ₄ /MeN _x Nanocomposite Coatings with High Thermal Stability and High Oxidation Resistance. <i>Solid State Phenomena</i> , 2007 , 127, 31-36	0.4	34
208	Thermal stability of magnetron sputtered ZrSiN films. <i>Surface and Coatings Technology</i> , 2006 , 201, 3368-3376	4.4	34
207	Properties of nanocrystalline AlCuO films reactively sputtered by DC pulse dual magnetron. <i>Applied Surface Science</i> , 2011 , 258, 1762-1767	6.7	32
206	Physical properties and high-temperature oxidation resistance of sputtered Si ₃ N ₄ /MoN _x nanocomposite coatings. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 1568		32
205	Ti ₂ N phase growth control in titanium nitride films. <i>Thin Solid Films</i> , 1989 , 170, L55-L58	2.2	32
204	Physical and mechanical properties of sputtered TaSiN films with a high (70 at %) content of Si. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004 , 22, 646	2.9	31
203	Measurement of hardness of superhard films by microindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 340, 281-285	5.3	31
202	Hard and superhard nanocomposite AlCuN films prepared by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2001 , 142-144, 603-609	4.4	31
201	Recent progress in plasma nitriding. <i>Vacuum</i> , 2000 , 59, 940-951	3.7	29

200	Plasma spray deposition of graded metal-ceramic coatings. <i>Surface and Coatings Technology</i> , 1992 , 52, 211-220	4.4	29
199	TiN films grown by reactive magnetron sputtering with enhanced ionization at low discharge pressures. <i>Vacuum</i> , 1990 , 41, 2233-2238	3.7	29
198	Absorption of electromagnetic waves in a radially inhomogeneous plasma at high magnetic fields. <i>Plasma Physics</i> , 1975 , 17, 1147-1153		29
197	The effect of addition of Al in ZrO ₂ thin film on its resistance to cracking. <i>Surface and Coatings Technology</i> , 2012 , 207, 355-360	4.4	28
196	Enhanced hardness in sputtered ZrN _{0.8} films. <i>Surface and Coatings Technology</i> , 2006 , 200, 6293-6297	4.4	28
195	Anomalous absorption of intense electromagnetic waves in plasma at high magnetic fields. <i>Plasma Physics</i> , 1974 , 16, 735-739		28
194	High-rate reactive deposition of transparent SiO ₂ films containing low amount of Zr from molten magnetron target. <i>Thin Solid Films</i> , 2010 , 519, 775-777	2.2	27
193	Formation of high temperature phases in sputter deposited Ti-based films below 100 °C. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996 , 14, 2247-2250	2.9	27
192	Modeling of inhomogeneous film deposition and target erosion in reactive sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990 , 8, 1560-1565	2.9	27
191	Flexible hard Al-Si-N films for high temperature operation. <i>Surface and Coatings Technology</i> , 2016 , 307, 1112-1118	4.4	26
190	A study on the synthesis and microstructure of WC _{0.8} TiN superlattice coating. <i>Surface and Coatings Technology</i> , 2000 , 131, 372-377	4.4	26
189	On picosubstructural models of physically vapor-deposited films of titanium nitride. <i>Surface and Coatings Technology</i> , 1991 , 49, 181-187	4.4	26
188	Growth and properties of hard coatings prepared by physical vapor deposition methods. <i>Surface and Coatings Technology</i> , 1992 , 54-55, 287-296	4.4	26
187	Microhardness of Ti-N films containing the epsilon-Ti ₂ N phase. <i>Journal Physics D: Applied Physics</i> , 1988 , 21, 1657-1658	3	26
186	Evolution of film temperature during magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 1083-1090	2.9	24
185	Nucleation of ultrathin silver layer by magnetron sputtering in Ar/N ₂ plasma. <i>Surface and Coatings Technology</i> , 2013 , 228, S86-S90	4.4	23
184	The effect of Al composition on the microstructure and mechanical properties of WC _{0.8} TiAlN superhard composite coating. <i>Surface and Coatings Technology</i> , 2001 , 142-144, 596-602	4.4	23
183	Deposition of thin films using microwave plasmas: present status and trends. <i>Vacuum</i> , 1996 , 47, 145-155	3.7	23

182	Present status of thin oxide films creation in a microwave plasma. <i>European Physical Journal D</i> , 1980 , 30, 688-708		23
181	Protective over-layer coating preventing cracking of thin films deposited on flexible substrates. <i>Surface and Coatings Technology</i> , 2014 , 240, 275-280	4.4	22
180	Contamination of Magnetron Sputtered Metallic Films by Oxygen From Residual Atmosphere in Deposition Chamber. <i>Plasma Processes and Polymers</i> , 2015 , 12, 416-421	3.4	22
179	A comparison of internal plasma parameters in a conventional planar magnetron and a magnetron with additional plasma confinement. <i>Plasma Sources Science and Technology</i> , 1997 , 6, 46-52	3.5	22
178	High-rate pulsed reactive magnetron sputtering of oxide nanocomposite coatings. <i>Vacuum</i> , 2013 , 87, 96-102	3.7	21
177	The Role of Energy in Formation of Sputtered Nanocomposite Films. <i>Materials Science Forum</i> , 2005 , 502, 291-296	0.4	21
176	Morphology and Microstructure of Hard and Superhard Zr _{0.5} Ti _{0.5} N Nanocomposite Coatings. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 6529-6533	1.4	21
175	Plasma nitriding enhanced by hollow cathode discharge – a new method for formation of superhard nanocomposite coatings on steel surfaces. <i>Vacuum</i> , 1999 , 55, 171-175	3.7	21
174	A method of formation of thin oxide films on silicon in a microwave magnetoactive oxygen plasma. <i>Journal Physics D: Applied Physics</i> , 1975 , 8, L195-L197	3	21
173	RF magnetron sputtering of silver thin film in Ne, Ar and Kr discharges – plasma characterisation and surface morphology. <i>Surface and Coatings Technology</i> , 2013 , 228, S466-S469	4.4	20
172	Antibacterial Cr _{0.5} Ti _{0.5} O ₂ films prepared by reactive magnetron sputtering. <i>Applied Surface Science</i> , 2013 , 276, 660-666	6.7	20
171	In-situ X-ray diffraction studies of time and thickness dependence of crystallization of amorphous TiO ₂ thin films and stress evolution. <i>Thin Solid Films</i> , 2010 , 519, 1649-1654	2.2	20
170	High-rate low-temperature dc pulsed magnetron sputtering of photocatalytic TiO ₂ films: the effect of repetition frequency. <i>Nanoscale Research Letters</i> , 2007 , 2, 123-9	5	20
169	Physical and Mechanical Properties of Hard Nanocomposite Films Prepared by Reactive Magnetron Sputtering. <i>Nanostructure Science and Technology</i> , 2006 , 407-463	0.9	20
168	Hard Nanocomposite Coatings Prepared by Magnetron Sputtering. <i>Key Engineering Materials</i> , 2002 , 230-232, 613-622	0.4	20
167	Flexible hydrophobic ZrN nitride films. <i>Vacuum</i> , 2016 , 131, 34-38	3.7	20
166	Evolution of microstructure and macrostress in sputtered hard Ti(Al,V)N films with increasing energy delivered during their growth by bombarding ions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017 , 35, 020601	2.9	19
165	Effect of energy on structure, microstructure and mechanical properties of hard Ti(Al,V) _x films prepared by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2017 , 332, 190-197	4.4	19

164	Two-Functional Direct Current Sputtered Silver-Containing Titanium Dioxide Thin Films. <i>Nanoscale Research Letters</i> , 2009 , 4, 313-320	5	19
163	Two-functional DC sputtered Cu-containing TiO ₂ thin films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010 , 209, 158-162	4.7	19
162	Planar magnetron sputtering discharge enhanced with radio frequency or microwave magnetoactive plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997 , 15, 1999-2006	2.9	19
161	Inductively-Coupled-Plasma-Assisted Planar Magnetron Discharge for Enhanced Ionization of Sputtered Atoms. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 4568-4571	1.4	18
160	Ti-Si-N Films with a High Content of Si. <i>Plasma Processes and Polymers</i> , 2007 , 4, S574-S578	3.4	18
159	100 GW pulsed iodine photodissociation laser system PERUN I. <i>European Physical Journal D</i> , 1988 , 38, 1337-1356		18
158	Flexible Antibacterial Coatings. <i>Molecules</i> , 2017 , 22,	4.8	17
157	The depth profile analysis of W-Si-N coatings after thermal annealing. <i>Surface and Coatings Technology</i> , 2002 , 161, 111-119	4.4	17
156	Penetration of a strong electromagnetic wave in an inhomogeneous plasma generated by ECR using a magnetic beach. <i>Plasma Physics</i> , 1971 , 13, 471-476		17
155	Magnetron sputtering of alloy-based films and its specificity. <i>European Physical Journal D</i> , 1998 , 48, 1209-1224		16
154	Formation of crystalline Al ₂ O ₃ thin films and their properties. <i>Surface and Coatings Technology</i> , 2008 , 202, 6064-6069	4.4	16
153	Differences between microwave and RF activation of nitrogen for the PECVD process. <i>Journal Physics D: Applied Physics</i> , 1982 , 15, L79-L82	3	16
152	Absorption of microwave energy in a plasma column at high magnetic fields. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1974 , 50, 309-310	2.3	16
151	Investigation of the Negative Ions in Ar/O ₂ Plasma of Magnetron Sputtering Discharge with Al:Zn Target by Ion Mass Spectrometry. <i>Plasma Processes and Polymers</i> , 2011 , 8, 459-464	3.4	15
150	Generation of Positive and Negative Oxygen Ions in Magnetron Discharge During Reactive Sputtering of Alumina. <i>Plasma Processes and Polymers</i> , 2010 , 7, 910-914	3.4	15
149	Novel model for film growth based on surface temperature developing during magnetron sputtering. <i>Surface and Coatings Technology</i> , 2007 , 202, 486-493	4.4	15
148	Relationship between structure and mechanical properties in hard AlSiCuN films prepared by magnetron sputtering. <i>Thin Solid Films</i> , 2002 , 413, 121-130	2.2	15
147	Rectangular magnetron with Full target erosion. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999 , 17, 555-563	2.9	15

146	Formation of Ti _{1-x} Si _x and Ti _{1-x} Si _x N films by magnetron co-sputtering. <i>European Physical Journal D</i> , 1999 , 49, 359-372		15
145	Optimized magnetic field shape for low pressure magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1995 , 13, 389-393	2.9	15
144	Laser-stimulated growth of the $\sqrt{3}$ Ti ₂ N phase in Ti ₂ N films during d.c. reactive magnetron sputter deposition. <i>Thin Solid Films</i> , 1991 , 196, 265-270	2.2	15
143	Effect of energy on the formation of flexible hard Al-Si-N films prepared by magnetron sputtering. <i>Vacuum</i> , 2016 , 133, 43-45	3.7	15
142	Thermally activated transformations in metastable alumina coatings prepared by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2014 , 240, 7-13	4.4	14
141	Flexible antibacterial AlCuTiN films. <i>Surface and Coatings Technology</i> , 2015 , 264, 114-120	4.4	14
140	Plasma Drift in Dual Magnetron Discharge. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1412-1413	1.3	14
139	Control of macrostress σ_{in} in reactively sputtered MoAlN films by total gas pressure. <i>Vacuum</i> , 2006 , 80, 588-592	3.7	14
138	Optical emission spectra and ion energy distribution functions in TiN deposition process by reactive pulsed magnetron sputtering. <i>Surface and Coatings Technology</i> , 2005 , 200, 835-840	4.4	14
137	Microwave plasma nitriding of a low-alloy steel. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 2715-2721	2.9	14
136	Optical emission spectra from microwave oxygen plasma produced by surfatron discharge. <i>European Physical Journal D</i> , 1993 , 43, 533-540		14
135	Effect of the polarization of the electromagnetic wave on wave energy absorption caused by the linear transformation of waves. <i>European Physical Journal D</i> , 1972 , 22, 133-137		14
134	Protection of brittle film against cracking. <i>Applied Surface Science</i> , 2016 , 370, 306-311	6.7	13
133	Hard Nanocomposite Coatings 2014 , 325-353		13
132	Plasma nitriding combined with a hollow cathode discharge sputtering at high pressures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997 , 15, 2636-2643	2.9	13
131	Effect of Al Addition on Structure and Properties of Sputtered TiC Films. <i>Plasma Processes and Polymers</i> , 2007 , 4, S6-S10	3.4	13
130	Production of Ti films with controlled texture. <i>Surface and Coatings Technology</i> , 1995 , 76-77, 274-279	4.4	13
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