Paolo M. Ossi

List of Publications by Year
in descending order

186	2,524	218677	289244
papers	citations	26 h-index	40 g-index

194	194	194	2039
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanoparticles Engineering by Pulsed Laser Ablation in Liquids: Concepts and Applications. Nanomaterials, 2020, 10, 2317.	4.1	140
2	Surface segregation in transition metal alloys: Experiments and theories. Surface Science, 1988, 201, L519-L531.	1.9	106
3	Synthesis and characterization of tungsten and tungsten oxide nanostructured films. Catalysis Today, 2006, 116, 69-73.	4.4	72
4	Spectroscopic characterization of thermally treated carbon-rich Si1â^'xCx films. Thin Solid Films, 1993, 223, 114-121.	1.8	70
5	The controlled pulsed laser deposition of Ag nanoparticle arrays for surface enhanced Raman scattering. Nanotechnology, 2009, 20, 245606.	2.6	58
6	Growth process of nanostructured silver films pulsed laser ablated in high-pressure inert gas. Applied Surface Science, 2009, 255, 9676-9679.	6.1	55
7	Combined surface Brillouin scattering and x-ray reflectivity characterization of thin metallic films. Journal of Applied Physics, 1997, 81, 672-678.	2.5	49
8	Structure and mechanical properties of PACVD fluorinated amorphous carbon films. Thin Solid Films, 2003, 433, 149-154.	1.8	49
9	Au nanoparticle arrays produced by Pulsed Laser Deposition for Surface Enhanced Raman Spectroscopy. Applied Surface Science, 2012, 258, 9148-9152.	6.1	49
10	Transformation of graphite into nanodiamond following extreme electronic excitations. Physical Review B, 2007, 76, .	3.2	44
11	Ag nanocluster synthesis by laser ablation in Ar atmosphere: A plume dynamics analysis. Laser and Particle Beams, 2009, 27, 281-290.	1.0	44
12	Expansion of an ablation plume in a buffer gas and cluster growth. Europhysics Letters, 2007, 79, 35002.	2.0	43
13	Chemical and compositional changes induced by N+implantation in amorphous SiC films. Journal of Applied Physics, 1993, 74, 2013-2020.	2.5	41
14	Pulsed-laser deposition of carbon: from DLC to cluster-assembled films. Thin Solid Films, 2005, 482, 2-8.	1.8	38
15	Preliminary fabrication and characterisation of inert matrix and thoria fuels for plutonium disposition in light water reactors. Journal of Nuclear Materials, 1999, 274, 23-33.	2.7	37
16	Ion beam induced enhanced adhesion of Au films deposited on polytetrafluoroethylene. Thin Solid Films, 2002, 420-421, 565-570.	1.8	37
17	Pulsed laser deposition of diamondlike carbon films on polycarbonate. Journal of Applied Physics, 2003, 93, 859-865.	2.5	37
18	SERS activity of pulsed laser ablated silver thin films with controlled nanostructure. Journal of Raman Spectroscopy, 2011, 42, 1298-1304.	2.5	34

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19	Plume propagation through a buffer gas and cluster size prediction. Applied Surface Science, 2007, 253, 7682-7685.	6.1	33
20	Decoration of silicon nanowires with silver nanoparticles for ultrasensitive surface enhanced Raman scattering. Nanotechnology, 2016, 27, 375603.	2.6	33
21	Ag and Au nanoparticles for SERS substrates produced by pulsed laser ablation. Crystal Research and Technology, 2011, 46, 836-840.	1.3	31
22	Mechanical behaviour of nitrogen-implanted aluminium alloys. Surface and Coatings Technology, 1996, 83, 284-289.	4.8	30
23	SERS detection and DFT calculation of 2-naphthalene thiol adsorbed on Ag and Au probes. Sensors and Actuators B: Chemical, 2016, 237, 545-555.	7.8	30
24	Systematic study of amorphous hydrogenated and fluorinated carbon films. Applied Surface Science, 2003, 205, 113-120.	6.1	29
25	Cluster growth in an ablation plume propagating through a buffer gas. Applied Physics A: Materials Science and Processing, 2008, 93, 645-650.	2.3	29
26	Pulsed laser deposition of glass-like cluster assembled carbon films. Carbon, 2005, 43, 2122-2127.	10.3	27
27	On the wear behaviour of nitrogen implanted 304 stainless steel. Scripta Metallurgica, 1986, 20, 37-42.	1.2	26
28	Thick and homogeneous surface layers obtained by reactive ion-beam-enhanced deposition. Materials Science and Engineering, 1987, 90, 349-355.	0.1	26
29	Laser-irradiation-induced structural changes on graphite. Physical Review B, 1999, 59, 13513-13516.	3.2	26
30	Crystal-Glass Phase Transition in Ion Irradiated Binary Systems. Physica Status Solidi A, 1990, 119, 463-470.	1.7	25
31	Structure and optical properties of TiN films prepared by dc sputtering and by ion beam assisted deposition. Vacuum, 1992, 43, 459-462.	3.5	24
32	Noble metal nanoparticles produced by nanosecond laser ablation. Applied Physics A: Materials Science and Processing, 2011, 104, 829-837.	2.3	24
33	Ion-beam-induced amorphization. Materials Science and Engineering, 1987, 90, 55-68.	0.1	23
34	Structural and mechanical properties of ta-C films grown by pulsed laser deposition. Europhysics Letters, 2000, 50, 501-506.	2.0	23
35	Surface analytical chemical imaging and morphology of Cuâ€“Cr alloy. Surface and Coatings Technology, 2006, 200, 6373-6377.	4.8	23
36	Metastable phase formation in particle-bombarded metallic systems. Rivista Del Nuovo Cimento, 1992, 15, 1-96.	5.7	21

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37	Laser-Synthesized SERS Substrates as Sensors toward Therapeutic Drug Monitoring. Nanomaterials, 2019, 9, 677.	4.1	21
38	The ZrCâ€“C eutectic structure and melting behaviour: A high-temperature radiance spectroscopy study. Journal of the European Ceramic Society, 2013, 33, 1349-1361.	5.7	20
39	Phase stability and martensitic transformation in metals and alloys. Journal of Physics F: Metal Physics, 1981, 11, 2037-2043.	1.6	19
40	SERS activity of silver and gold nanostructured thin films deposited by pulsed laser ablation. Applied Physics A: Materials Science and Processing, 2014, 117, 347-351.	2.3	19
41	Functionalization of silicon nanowire arrays by silver nanoparticles for the laser desorption ionization mass spectrometry analysis of vegetable oils. Journal of Mass Spectrometry, 2016, 51, 849-856.	1.6	19
42	Elastic constants of cubic boron nitride films. Applied Physics Letters, 2000, 77, 2168-2170.	3.3	18
43	Synthesis by pulsed laser ablation in Ar and SERS activity of silver thin films with controlled nanostructure. Laser Physics, 2011, 21, 818-822.	1.2	18
44	Determination of the Gruneisen parameter by the thermoelastic effect in anharmonic solids. Journal of Physics C: Solid State Physics, 1978, 11, 4921-4925.	1.5	17
45	A thermoelastic method to determine the thermal diffusivity. Applied Physics Berlin, 1979, 18, 63-66.	1.4	16
46	Titanium nitride coatings obtained using new apparatus for ion beam assisted deposition. Surface and Coatings Technology, 1991, 49, 150-154.	4.8	16
47	Pulsed laser deposition of boron nitride thin films. Radiation Effects and Defects in Solids, 2008, 163, 293-298.	1.2	16
48	Time-dependent evolution of thin TiN films prepared by ion beam assisted deposition. Journal of Applied Physics, 1999, 86, 5566-5572.	2.5	15
49	Raman spectroscopy of organic dyes adsorbed on pulsed laser deposited silver thin films. Applied Surface Science, 2013, 278, 259-264.	6.1	15
50	Laser Controlled Synthesis of Noble Metal Nanoparticle Arrays for Low Concentration Molecule Recognition. Micromachines, 2014, 5, 1296-1309.	2.9	15
51	Characterization of surface graphitic electrodes made by excimer laser on CVD diamond. Diamond and Related Materials, 2016, 65, 137-143.	3.9	15
52	Synthesis and structural characterization of boron nitride thin films. Thin Solid Films, 1994, 253, 78-84.	1.8	14
53	High temperature ion beam erosion of polytetrafluoroethylene. Thin Solid Films, 2004, 459, 318-322.	1.8	14
54	Influence of ambient gas ionization on the deposition of clusters formed in an ablation plume. Applied Surface Science, 2006, 252, 4364-4367.	6.1	14

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55	Pulsed-laser deposition of nanostructured Pd/C thin films. Applied Surface Science, 2007, 254, 1307-1311.	6.1	14
56	Light Scattering Enhancement in Nanostructured Silver Film Composites. Journal of Physical Chemistry C, 2013, 117, 3497-3502.	3.1	14
57	On the role of the ablated mass on the propagation of a laser-generated plasma in an ambient gas. Europhysics Letters, 2015, 109, 25002.	2.0	14
58	Measurement of the low-frequency viscosity of some polycrystalline metals and alloys. Journal of Physics F: Metal Physics, 1978, 8, 1671-1675.	1.6	13
59	Phase formation and stability of N+implanted SiC thin films. Journal of Applied Physics, 1997, 81, 146-149.	2.5	13
60	Structural and Mechanical Properties of Diamond-Like Carbon Films Prepared by Pulsed Laser Deposition With Varying Laser Intensity. Materials Research Society Symposia Proceedings, 1999, 593, 359.	0.1	13
61	Martensitic transformation onset in noble metal Î² phase alloys. Journal of Physics F: Metal Physics, 1982, 12, 2805-2812.	1.6	12
62	Model of glass formation in irradiated transition metal alloys. Radiation Effects and Defects in Solids, 1989, 108, 61-71.	1.2	12
63	Low-temperature deposition of cubic boron nitride thin films. Europhysics Letters, 1998, 44, 627-633.	2.0	12
64	Control of cluster synthesis in nano-glassy carbon films. Journal of Non-Crystalline Solids, 2007, 353, 1860-1864.	3.1	12
65	Nanostructured silver thin films deposited by pulsed laser ablation. Radiation Effects and Defects in Solids, 2008, 163, 673-683.	1.2	12
66	Radio-frequency assisted pulsed laser deposition of nanostructured WOx films. Applied Surface Science, 2009, 255, 9699-9702.	6.1	12
67	Au nanoparticle-based sensor for apomorphine detection in plasma. Beilstein Journal of Nanotechnology, 2015, 6, 2224-2232.	2.8	12
68	Pulsed laser deposition of gold thin films with long-range spatial uniform SERS activity. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	12
69	Propagation in outdoor environments of aerosol droplets produced by breath and light cough. Aerosol Science and Technology, 2021, 55, 340-351.	3.1	12
70	Theory of thermoelastic martensite nucleation. Materials Science and Engineering, 1986, 77, L5-L9.	0.1	11
71	Structure and superconductivity of Nb-Zr thin films. Journal of Physics Condensed Matter, 1989, 1, 6685-6693.	1.8	11
72	Ion-induced crystal-to-glass transition in alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 115, 107-121.	5.6	11

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73	Elastic behaviour of TiN thin films. Thin Solid Films, 1993, 236, 209-213.	1.8	11
74	Phase formation and amorphisation processes under high-energy ion bombardment. Surface and Coatings Technology, 1996, 83, 22-29.	4.8	11
75	Direct laser deposition of nanostructured tungsten oxide for sensing applications. Journal Physics D: Applied Physics, 2016, 49, 205101.	2.8	11
76	Strain driven thermoelastic instability toward brittle fracture. Zeitschrift FÃ¼r Physik B Condensed Matter and Quanta, 1980, 39, 135-141.	1.9	10
77	Gruneisen parameter: measurement of the strain derivatives. Journal of Physics F: Metal Physics, 1981, 11, 541-545.	1.6	10
78	Phase formation in ion bombarded metallic films. European Physical Journal B, 1994, 93, 243-250.	1.5	10
79	Measurement of the elastic constants of nanometer-thick films. Materials Science and Engineering C, 2002, 19, 201-204.	7.3	10
80	WOx cluster formation in radio frequency assisted pulsed laser deposition. Applied Surface Science, 2007, 254, 1347-1351.	6.1	10
81	Growth Analysis of Pulsed Laser Ablated Films. Plasmonics, 2013, 8, 1707-1712.	3.4	10
82	On the influence of the mass ablated by a laser pulse on thin film morphology and optical properties. Applied Physics A: Materials Science and Processing, 2014, 117, 137-142.	2.3	10
83	Protein-Metal Interactions Probed by SERS: Lysozyme on Nanostructured Gold Surface. Plasmonics, 2018, 13, 2117-2124.	3.4	10
84	On the Optical Properties of Agâ€“Au Colloidal Alloys Pulsed Laser Ablated in Liquid: Experiments and Theory. Journal of Physical Chemistry C, 2020, 124, 24930-24939.	3.1	10
85	Surface segregation analysis of martensite nucleation in model systems. European Physical Journal B, 1986, 63, 293-298.	1.5	9
86	Ion-induced crystal-to-glass transition in alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 61, 639-647.	0.6	9
87	Elemental distribution in fluorinated amorphous carbon thin films. Journal of the American Society for Mass Spectrometry, 2005, 16, 126-131.	2.8	9
88	Effect of ambient gas ionisation on the morphology of a pulsed laser deposited carbon film. Carbon, 2006, 44, 3049-3052.	10.3	9
89	Laser tailored nanoparticle arrays to detect molecules at dilute concentration. Applied Surface Science, 2017, 396, 1866-1874.	6.1	9
90	Local charge transfer and stability of amorphous systems produced by ion beam irradiation. European Physical Journal B, 1988, 69, 511-519.	1.5	8

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91	Nanostructure evolution in cluster-assembled WO x films synthesized by radio-frequency assisted laser ablation. Applied Physics A: Materials Science and Processing, 2010, 101, 325-331.	2.3	8
92	Functionalization of nanostructured gold substrates with chiral chromophores for SERS applications: The case of 5â€Aza[5]helicene. Chirality, 2018, 30, 875-882.	2.6	8
93	Crystal-glass transition in ion-bombarded alloys. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1988, 10, 395-406.	0.4	7
94	Quasicrystals: an electron phase. Journal of the Less Common Metals, 1991, 171, 221-230.	0.8	7
95	Structure and mechanical properties of nanocrystalline boron nitride thin films. Applied Organometallic Chemistry, 2001, 15, 430-434.	3.5	7
96	Energetic condition for carbyne formation. Chemical Physics Letters, 2003, 376, 662-665.	2.6	7
97	Pulsed laser deposition of nano-glassy carbon films. Applied Surface Science, 2005, 248, 334-339.	6.1	7
98	Morphology and growth mechanism of WO _x films prepared by laser ablation of W in different atmospheres. Europhysics Letters, 2008, 83, 68005.	2.0	7
99	Propagation of laser generated plasmas through inert gases. Laser and Particle Beams, 2010, 28, 53-59.	1.0	7
100	The contribution of surfaces to the Raman spectrum of snow. Applied Surface Science, 2020, 515, 146029.	6.1	7
101	Laser-Mediated Nanoparticle Synthesis and Self-Assembling. Springer Series in Materials Science, 2014, , 175-212.	0.6	7
102	Localised surface segregation and martensite nucleation in noble metal based ternary alloys. European Physical Journal B, 1985, 62, 71-77.	1.5	6
103	Phase formation in the N-B-Ti system. Vacuum, 1995, 46, 951-954.	3.5	6
104	Focused ion beam-secondary ion mass spectrometry analyses of nanostructured thin films. Surface and Coatings Technology, 2004, 180-181, 323-330.	4.8	6
105	SIMS direct surface imaging of Cu1â^'xCrx formation. Applied Surface Science, 2006, 252, 2288-2296.	6.1	6
106	Plastic deformation, anharmonicity and GrÃ¼neisen parameter of Î±-titanium. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1980, 41, 943-947.	0.6	5
107	On the rearrangement mechanisms during liquid phase sintering of a model system. Scripta Metallurgica, 1985, 19, 569-574.	1.2	5
108	Nucleation of quasi-crystalline and amorphous structures. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1989, 11, 1123-1133.	0.4	5

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109	Phase formation in thin solid films subjected to fast charged particle bombardment. Computational Materials Science, 1993, 1, 428-438.	3.0	5
110	Structural stability of irradiated ceramics. Journal of Nuclear Materials, 2001, 289, 80-85.	2.7	5
111	Spectroscopic characterisation of DLC films deposited on polycarbonate by pulsed laser ablation. Surface and Coatings Technology, 2002, 151-152, 303-307.	4.8	5
112	Role of embedded carbon particles on the morphology, microstructure and transport properties of sintered ultra-high molecular weight polyethylene. Carbon, 2013, 65, 20-27.	10.3	5
113	Near-Field Optical Detection of Plasmon Resonance from Gold Nanoparticles: Theoretical and Experimental Evidence. Plasmonics, 2015, 10, 63-70.	3.4	5
114	SERS sensing of perampanel with nanostructured arrays of gold particles produced by pulsed laser ablation in water. Medical Devices & Sensors, 2018, 1, e10003.	2.7	5
115	Superconductivity in crystalline and amorphous Nbî—¸Zr thin films. Materials Science and Engineering, 1988, 99, 201-205.	0.1	4
116	Bombardment-Induced Phase Nucleation in Binary Alloys. Physica Status Solidi A, 1993, 135, 169-182.	1.7	4
117	Structure and elastic properties of thin alloyed gold films. Thin Solid Films, 1998, 317, 198-201.	1.8	4
118	Modeling radiation induced structural evolution in nonmetallic compounds. Journal of Applied Physics, 1999, 85, 1387-1394.	2.5	4
119	Structural stability of irradiated metallic and non-metallic films. Surface and Coatings Technology, 2000, 125, 61-65.	4.8	4
120	Structural and elastic properties of cubic boron nitride films. Surface and Coatings Technology, 2002, 151-152, 151-154.	4.8	4
121	Time evolution of a laser-generated silver plasma expanding in a background gas. Radiation Effects and Defects in Solids, 2010, 165, 559-565.	1.2	4
122	Sputtered Ge-on-Si heteroepitaxial pn junctions: Nanostructure, interface morphology and photoelectrical properties. Microelectronic Engineering, 2011, 88, 518-521.	2.4	4
123	Excimer laser-induced diamond graphitization for high-energy nuclear applications. Applied Physics B: Lasers and Optics, 2013, 113, 373-378.	2.2	4
124	Dynamic behaviour of miniature laser textured skis. Surface Engineering, 2020, 36, 1250-1260.	2.2	4
125	Metal-decorated silicon nanowires for laser desorption-ionization mass spectrometry. SPIE Newsroom, 0, , .	0.1	4
126	Raman Spectroscopy-Based Assessment of the Liquid Water Content in Snow. Molecules, 2022, 27, 626.	3.8	4

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127	Sensing the Anti-Epileptic Drug Perampanel with Paper-Based Spinning SERS Substrates. Molecules, 2022, 27, 30.	3.8	4
128	Phase nucleation and stability in irradiated metal-silicon systems. European Physical Journal B, 1989, 77, 321-327.	1.5	3
129	Statistical thermodynamics of ordering in ferromagnets. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 905-907.	2.3	3
130	Synthesis of mixed hexagonal-cubic BN thin films at low temperature. Applied Surface Science, 1997, 108, 33-38.	6.1	3
131	Modelling structural stability under irradiation. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 2129-2136.	0.6	3
132	Metastable phase nucleation in irradiated metallic alloys. Scripta Materialia, 1999, 11, 739-745.	0.5	3
133	Structural changes induced by swift heavy ions in non-metallic compounds. Nuclear Instruments & Methods in Physics Research B, 2003, 209, 55-61.	1.4	3
134	Pulsed Laser Deposition of Carbon Films: Tailoring Structure and Properties. , 0, , 359-380.		3
135	Modifications of yttria fully stabilized zirconia thin films by ion irradiation in the inelastic collision regime. Journal of Applied Physics, 2008, 104, 093534.	2.5	3
136	Structural modifications induced by swift heavy ions in thin films of yttria fully stabilized zirconia. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3132-3136.	1.4	3
137	Nanoporous cluster-assembled WOx films prepared by radio-frequency assisted laser ablation. Thin Solid Films, 2010, 518, 4493-4498.	1.8	3
138	Cluster Synthesis and Cluster-Assembled Film Deposition in Nanosecond Pulsed Laser Ablation. Springer Series in Materials Science, 2010, , 99-124.	0.6	3
139	Creating Nanostructures with Lasers. Springer Series in Materials Science, 2010, , 131-167.	0.6	3
140	Synthesis by pulsed laser ablation of 2D nanostructures for advanced biomedical sensing. Journal of Instrumentation, 2016, 11, C05006-C05006.	1.2	3
141	Synthesis of Natural-Like Snow by Ultrasonic Nebulization of Water: Morphology and Raman Characterization. Molecules, 2020, 25, 4458.	3.8	3
142	RADIATION-INDUCED PHASE TRANSITIONS. , 2007, , 259-319.		3
143	Field Study of Mass Balance, and Hydrology of the West Khangri Nup Glacier (Khumbu, Everest). Water (Switzerland), 2020, 12, 433.	2.7	3
144	Sliding on snow of Aisi 301 stainless steel surfaces treated with ultra-short laser pulses. Applied Surface Science Advances, 2022, 7, 100194.	6.8	3

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145	Thermodynamics of cooperative phenomena in magnetic materials. Journal of Magnetism and Magnetic Materials, 1986, 54-57, 725-727.	2.3	2
146	Elastic anomalies and martensite nucleation in Î²-phase alloys. Physica Status Solidi A, 1988, 108, 587-598.	1.7	2
147	A thermodynamic approach for cooperative phenomena in magnetic materials. Journal of Magnetism and Magnetic Materials, 1990, 83, 300-302.	2.3	2
148	Characterization of niobium nitride thin films prepared by ion-assisted deposition. Thin Solid Films, 1991, 201, 147-154.	1.8	2
149	Band structure influence on cohesion in quasi-crystals. Journal of Alloys and Compounds, 1992, 186, 153-160.	5.5	2
150	Non-equilibrium phase formation in ion-bombarded alloys. Thin Solid Films, 1996, 275, 235-239.	1.8	2
151	Modeling structural metastability of irradiated thin films. Surface Science, 2004, 554, 1-9.	1.9	2
152	SIMS analyses on Co:ns-C thin films. Applied Surface Science, 2004, 231-232, 859-863.	6.1	2
153	How the dynamics of an ablation plume is affected by ambient gas ionisation. Radiation Effects and Defects in Solids, 2005, 160, 567-573.	1.2	2
154	Modelling the propagation of an ablation plume in a gas. Radiation Effects and Defects in Solids, 2008, 163, 497-503.	1.2	2
155	Sputtered Ge-Si heteroepitaxial thin films for photodetection in third window. , 2008, , .		2
156	Heteroepitaxial sputtered Ge on Si (100): Nanostructure and interface morphology. Europhysics Letters, 2009, 88, 28005.	2.0	2
157	Evolution of Î²-SiC in laser-generated plasmas. Applied Surface Science, 2013, 272, 19-24.	6.1	2
158	Innovative metallic solutions for alpine ski bases. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 01A108.	1.2	2
159	Laser Synthesized Nanoparticles for Therapeutic Drug Monitoring. Springer Series in Materials Science, 2018, , 339-360.	0.6	2
160	Synthesis by picosecond laser ablation of ligand-free Ag and Au nanoparticles for SERS applications. EPJ Web of Conferences, 2018, 167, 05002.	0.3	2
161	Preparation of Metal Glasses by Ion Implantation and/or Sputtering*. Zeitschrift Fur Physikalische Chemie, 1988, 157, 239-244.	2.8	1
162	Model of phase formation in ion-mixed binary alloys with positive heats of formation. Journal of the Less Common Metals, 1990, 160, 351-362.	0.8	1

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163	Phase formation in ion-mixed alloys. Thin Solid Films, 1991, 202, 157-169.	1.8	1
164	Modelling the Structure of Ion Bombarded Binary Alloys. Materials Research Society Symposia Proceedings, 1994, 373, 27.	0.1	1
165	Ageing effects of thin films prepared by ion beam assisted deposition: a multi-technique characterization. Thin Solid Films, 1996, 290-291, 401-405.	1.8	1
166	Structural stability of ion bombarded non-metallic systems. Nuclear Instruments & Methods in Physics Research B, 1999, 147, 202-206.	1.4	1
167	Generalized matching rules for aperiodic tilings. Journal of Alloys and Compounds, 2001, 316, 39-45.	5.5	1
168	Microscopic modeling of irradiation-induced metastability in ceramic thin films. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 1-9.	1.4	1
169	Modelling irradiation induced glass transition in thin films. Journal of Non-Crystalline Solids, 2004, 345-346, 132-136.	3.1	1
170	<title>Cluster size prediction in pulsed laser deposited films</title>. , 2007, , .		1
171	Structural changes in thin films of yttria-stabilized zirconia irradiated with uranium ions in the electronic stopping regime. Journal of Nuclear Materials, 2011, 416, 173-178.	2.7	1
172	Generation of periodic structures on SiC upon laser plasma XUV/NIR radiations. Laser and Particle Beams, 2013, 31, 547-550.	1.0	1
173	Nanostructured tungsten oxide using pulsed laser deposition for biosensing and environmental sensing applications. , 2019, , 363-384.		1
174	PHASE STABILITY AND MARTENSITIC TRANSFORMATION ONSET IN TRANSITION METAL AND NOBLE METAL ÃŸ -PHASE ALLOYS. Journal De Physique Colloque, 1982, 43, C4-127-C4-132.	0.2	1
175	Plastic-deformation dependence of the GrÃ¼neisen parameter strain derivatives. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1983, 2, 953-964.	0.4	0
176	Charge transfer and martensitic nucleation. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1987, 9, 1061-1071.	0.4	0
177	Charge transfer induced critical deformation in ion beam amorphized metallic alloys. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 189-193.	1.4	0
178	Structural stability versus instability in irradiated metallic films. Journal of Non-Crystalline Solids, 2001, 287, 177-182.	3.1	0
179	Modelling irradiation induced metastability in ceramic thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1096-1100.	0.8	0
180	A Raman and SERS study on the interactions of aza[5]helicene and aza[6]helicene with a nanostructured gold surface. Vibrational Spectroscopy, 2020, 111, 103180.	2.2	0

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181	The Structure of Disordered Systems. , 2003, , 87-177.		0
182	Synthesis of Silver Nanoparticle Arrays for SERS Based Sensing. Lecture Notes in Electrical Engineering, 2011, , 137-143.	0.4	0
183	Electronic Origin of Stability in Quasicrystals. , 1992, , 483-492.		0
184	VITRIFICATION OF NON-METALLIC FILMS UNDER ENERGETIC ION BOMBARDMENT. , 1998, , .		0
185	UV Resonance Raman Spectroscopy of weakly hydrogen-bonded water in the liquid phase and on ice and snow surfaces. Physical Chemistry Chemical Physics, 2022, , .	2.8	0
186	On the structure of thin amorphous carbon films. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 561-571.	0.6	0