

# Antonio Miotello

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5695851/publications.pdf>

Version: 2024-02-01

406  
papers

12,524  
citations

29994

54  
h-index

39575

94  
g-index

409  
all docs

409  
docs citations

409  
times ranked

10428  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen production by photocatalytic water-splitting using Cr- or Fe-doped TiO <sub>2</sub> composite thin films photocatalyst. International Journal of Hydrogen Energy, 2009, 34, 5337-5346.	3.8	377
2	Critical assessment of thermal models for laser sputtering at high fluences. Applied Physics Letters, 1995, 67, 3535-3537.	1.5	365
3	New Insights on the Mechanism of Palladium-Catalyzed Hydrolysis of Sodium Borohydride from <sup>11</sup> B NMR Measurements. Journal of Physical Chemistry B, 2006, 110, 17024-17033.	1.2	272
4	Comments on explosive mechanisms of laser sputtering. Applied Surface Science, 1996, 96-98, 205-215.	3.1	269
5	Metal Boride-Based Catalysts for Electrochemical Water-Splitting: A Review. Advanced Functional Materials, 2020, 30, 1906481.	7.8	268
6	Promoting effect of transition metal-doped Co-B alloy catalysts for hydrogen production by hydrolysis of alkaline NaBH <sub>4</sub> solution. Journal of Catalysis, 2010, 271, 315-324.	3.1	255
7	Cobalt-Boride: An efficient and robust electrocatalyst for Hydrogen Evolution Reaction. Journal of Power Sources, 2015, 279, 620-625.	4.0	255
8	Laser-induced phase explosion: new physical problems when a condensed phase approaches the thermodynamic critical temperature. Applied Physics A: Materials Science and Processing, 1999, 69, S67-S73.	1.1	253
9	Co-Ni-B nanocatalyst for efficient hydrogen evolution reaction in wide pH range. Applied Catalysis B: Environmental, 2016, 192, 126-133.	10.8	231
10	Hydrogen generation by hydrolysis of NaBH <sub>4</sub> with efficient Co-P-B catalyst: A kinetic study. Journal of Power Sources, 2009, 188, 411-420.	4.0	200
11	Copper and Nitrogen co-doped TiO <sub>2</sub> photocatalyst with enhanced optical absorption and catalytic activity. Applied Catalysis B: Environmental, 2015, 168-169, 333-341.	10.8	199
12	Progress in Co-B related catalyst for hydrogen production by hydrolysis of boron-hydrides: A review and the perspectives to substitute noble metals. International Journal of Hydrogen Energy, 2015, 40, 1429-1464.	3.8	178
13	Pd-C powder and thin film catalysts for hydrogen production by hydrolysis of sodium borohydride. International Journal of Hydrogen Energy, 2008, 33, 287-292.	3.8	172
14	Efficient catalytic properties of Co-Ni-P-B catalyst powders for hydrogen generation by hydrolysis of alkaline solution of NaBH <sub>4</sub> . International Journal of Hydrogen Energy, 2009, 34, 2893-2900.	3.8	171
15	Systematic investigation on the interaction of bovine serum albumin with ZnO nanoparticles using fluorescence spectroscopy. Colloids and Surfaces B: Biointerfaces, 2013, 102, 257-264.	2.5	170
16	Improved visible light photocatalytic activity of TiO <sub>2</sub> co-doped with Vanadium and Nitrogen. Applied Catalysis B: Environmental, 2012, 126, 47-54.	10.8	165
17	Studies on catalytic behavior of Co-Ni-B in hydrogen production by hydrolysis of NaBH <sub>4</sub> . Journal of Molecular Catalysis A, 2009, 298, 1-6.	4.8	161
18	Hydrogen generation by hydrolysis of alkaline NaBH <sub>4</sub> solution with Cr-promoted Co-B amorphous catalyst. Applied Catalysis B: Environmental, 2009, 92, 68-74.	10.8	159

#	ARTICLE	IF	CITATIONS
19	Laser-pulse sputtering of aluminum: Vaporization, boiling, superheating, and gas-dynamic effects. <i>Physical Review E</i> , 1994, 50, 4716-4727.	0.8	156
20	Laser-induced phase explosion: new physical problems when a condensed phase approaches the thermodynamic critical temperature. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S67-S73.	1.1	134
21	Thin films of Co-B prepared by pulsed laser deposition as efficient catalysts in hydrogen producing reactions. <i>Applied Catalysis A: General</i> , 2007, 323, 18-24.	2.2	131
22	Co <sub>3</sub> O <sub>4</sub> nanoparticles assembled coatings synthesized by different techniques for photo-degradation of methylene blue dye. <i>Applied Catalysis B: Environmental</i> , 2013, 132-133, 204-211.	10.8	122
23	Nanoparticle-assembled Co-B thin film for the hydrolysis of ammonia borane: A highly active catalyst for hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2010, 95, 137-143.	10.8	118
24	Kinetic Features of the Platinum Catalyzed Hydrolysis of Sodium Borohydride from <sup>11</sup> B NMR Measurements. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18744-18750.	1.5	115
25	Structured and Nanoparticle Assembled Co-B Thin Films Prepared by Pulsed Laser Deposition: A Very Efficient Catalyst for Hydrogen Production. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6968-6976.	1.5	112
26	Efficient photocatalytic degradation of organic water pollutants using V-N-codoped TiO <sub>2</sub> thin films. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 74-81.	10.8	112
27	Co-Mo-B Nanoparticles as a non-precious and efficient Bifunctional Electrocatalyst for Hydrogen and Oxygen Evolution. <i>Electrochimica Acta</i> , 2017, 232, 64-71.	2.6	112
28	A unique amorphous cobalt-phosphide-boride bifunctional electrocatalyst for enhanced alkaline water-splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118051.	10.8	112
29	Physically and chemically synthesized TiO <sub>2</sub> composite thin films for hydrogen production by photocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6896-6903.	3.8	111
30	Comprehensive studies on the interaction of copper nanoparticles with bovine serum albumin using various spectroscopies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 113, 276-284.	2.5	105
31	Efficient indium tin oxide/Cr-doped-TiO <sub>2</sub> multilayer thin films for H <sub>2</sub> production by photocatalytic water-splitting. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 9581-9590.	3.8	97
32	Pulsed laser deposition of Co <sub>3</sub> O <sub>4</sub> nanoparticles assembled coating: Role of substrate temperature to tailor disordered to crystalline phase and related photocatalytic activity in degradation of methylene blue. <i>Applied Catalysis A: General</i> , 2012, 423-424, 21-27.	2.2	95
33	Efficient Co-B-codoped TiO <sub>2</sub> photocatalyst for degradation of organic water pollutant under visible light. <i>Applied Catalysis B: Environmental</i> , 2016, 183, 242-253.	10.8	95
34	Clustering of gold atoms in ion-implanted silica after thermal annealing in different atmospheres. <i>Physical Review B</i> , 2001, 63, .	1.1	91
35	Primary and secondary mechanisms in laser-pulse sputtering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1992, 65, 187-199.	0.6	90
36	On the mechanisms of target modification by ion beams and laser pulses. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1997, 122, 374-400.	0.6	90

#	ARTICLE	IF	CITATIONS
37	Contribution of vaporization and boiling to thermal-spike sputtering by ions or laser pulses. Physical Review E, 1999, 60, 2616-2625.	0.8	77
38	Study of 2D MXene Cr <sub>2</sub> C material for hydrogen storage using density functional theory. Applied Surface Science, 2016, 389, 88-95.	3.1	77
39	Formation of an intermediate band in the energy gap of TiO <sub>2</sub> by Cu <sup>2+</sup> /N-codoping: First principles study and experimental evidence. Solar Energy Materials and Solar Cells, 2014, 125, 120-126.	3.0	75
40	Highly photo-catalytically active hierarchical 3D porous/urchin nanostructured Co <sub>3</sub> O <sub>4</sub> coating synthesized by Pulsed Laser Deposition. Applied Catalysis B: Environmental, 2015, 166-167, 475-484.	10.8	75
41	Sievert-type apparatus for the study of hydrogen storage in solids. Measurement Science and Technology, 2004, 15, 127-130.	1.4	72
42	Two stages in the kinetics of gold cluster growth in ion-implanted silica during isothermal annealing in oxidizing atmosphere. Journal of Applied Physics, 2002, 92, 4249-4254.	1.1	71
43	Spectroscopic characterization of thermally treated carbon-rich Si <sub>1-x</sub> C <sub>x</sub> films. Thin Solid Films, 1993, 223, 114-121.	0.8	70
44	Tungsten-doped TiO <sub>2</sub> /reduced Graphene Oxide nano-composite photocatalyst for degradation of phenol: A system to reduce surface and bulk electron-hole recombination. Journal of Environmental Management, 2017, 203, 364-374.	3.8	70
45	Microstructure, oxidation and H <sub>2</sub> -permeation resistance of TiAlN films deposited by DC magnetron sputtering technique. Surface and Coatings Technology, 2004, 180-181, 9-14.	2.2	67
46	Efficient H <sub>2</sub> production by water-splitting using indium-tin-oxide/N-doped TiO <sub>2</sub> multilayer thin film photocatalyst. International Journal of Hydrogen Energy, 2011, 36, 6519-6528.	3.8	67
47	Catalytic effect on hydrogen desorption in Nb-doped microcrystalline MgH <sub>2</sub> . Applied Physics Letters, 2004, 85, 5212-5214.	1.5	66
48	Dehydrogenation of Ammonia Borane with transition metal-doped Co-B alloy catalysts. International Journal of Hydrogen Energy, 2012, 37, 2397-2406.	3.8	66
49	Dependence of photocatalysis on charge carrier separation in Ag-doped and decorated TiO <sub>2</sub> nanocomposites. Catalysis Science and Technology, 2016, 6, 8428-8440.	2.1	66
50	Revisiting the thermal-spike concept in ion-surface interactions. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 458-469.	0.6	62
51	Laser-pulse sputtering of atoms and molecules Part II. Recondensation effects. Nuclear Instruments & Methods in Physics Research B, 1994, 91, 682-691.	0.6	61
52	Experimental and Theoretical Investigations on the Activity and Stability of Substitutional and Interstitial Boron in TiO <sub>2</sub> Photocatalyst. Journal of Physical Chemistry C, 2015, 119, 18581-18590.	1.5	57
53	Co oxide nanostructures for electrocatalytic water-oxidation: effects of dimensionality and related properties. Nanoscale, 2018, 10, 8806-8819.	2.8	56
54	Co-B catalyst supported over mesoporous silica for hydrogen production by catalytic hydrolysis of Ammonia Borane: A study on influence of pore structure. Applied Catalysis B: Environmental, 2013, 140-141, 125-132.	10.8	55

#	ARTICLE	IF	CITATIONS
55	Gas transport through nanocomposite membrane composed by polyethylene with dispersed graphite nanoplatelets. <i>Journal of Membrane Science</i> , 2014, 463, 196-204.	4.1	54
56	Wastewater remediation with ZnO photocatalysts: Green synthesis and solar concentration as an economically and environmentally viable route to application. <i>Journal of Environmental Management</i> , 2021, 286, 112226.	3.8	54
57	Nanodiamonds: Synthesis and Application in Sensing, Catalysis, and the Possible Connection with Some Processes Occurring in Space. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4094.	1.3	50
58	On the debris phenomenon with laser-sputtered polymers. <i>Applied Physics Letters</i> , 1992, 60, 2980-2982.	1.5	48
59	Improved dehydrogenation of ammonia borane over Co-P-B coating on Ni: A single catalyst for both hydrolysis and thermolysis. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 178-184.	10.8	48
60	Radiation effects in glasses. <i>Radiation Effects</i> , 1986, 98, 39-54.	0.4	46
61	Pulsed-laser sputtering of atoms and molecules. Part I: Basic solutions for gas-dynamic effects. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1993, 57, 145-158.	1.5	46
62	Pulsed Laser Deposition of Co-nanoparticles embedded on B-thin film: A very efficient catalyst produced in a single-step process. <i>Applied Catalysis B: Environmental</i> , 2011, 103, 31-38.	10.8	46
63	Polymer surface modification by ion implantation and reactive deposition of transparent films. <i>Surface and Coatings Technology</i> , 1998, 103-104, 375-379.	2.2	44
64	Structural evolution of Fe-Al multilayer thin films for different annealing temperatures. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 811-821.	0.7	44
65	Palladium membranes prepared by r.f. magnetron sputtering for hydrogen purification. <i>Surface and Coatings Technology</i> , 2004, 177-178, 73-79.	2.2	44
66	Solar Concentration for Wastewaters Remediation: A Review of Materials and Technologies. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 118.	1.3	44
67	Formation of a Noncrystalline Phase in Aluminum Irradiated with a Pulsed Ruby Laser. <i>Physical Review Letters</i> , 1980, 44, 88-91.	2.9	43
68	Novel geometrical effects observed in debris when polymers are laser sputtered. <i>Applied Physics Letters</i> , 1992, 61, 2784-2786.	1.5	43
69	Ion-beam mixing with chemical guidance IV. Thermodynamic effects without invoking thermal spikes. <i>Surface Science</i> , 1994, 314, 275-288.	0.8	43
70	Formation of silver nanoclusters by excimer laser interaction in silver-exchanged soda-lime glass. <i>Applied Physics Letters</i> , 2001, 79, 2456-2458.	1.5	43
71	Hydrogen kinetics in magnesium hydride: On different catalytic effects of niobium. <i>Applied Physics Letters</i> , 2006, 89, 014101.	1.5	43
72	Mesoporous Co-B nanocatalyst for efficient hydrogen production by hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14685-14692.	3.8	43

#	ARTICLE	IF	CITATIONS
73	Slow electrons impinging on dielectric solids. II. Implantation profiles, electron mobility, and recombination processes. <i>Physical Review B</i> , 1997, 56, 2241-2247.	1.1	42
74	Does normal boiling exist due to laser-pulse or ion bombardment?. <i>Journal of Applied Physics</i> , 2000, 87, 3177-3179.	1.1	42
75	Numerical analysis of field-assisted sodium migration in electron-irradiated glasses. <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, 5615-5621.	1.5	41
76	Chemical and compositional changes induced by N+implantation in amorphous SiC films. <i>Journal of Applied Physics</i> , 1993, 74, 2013-2020.	1.1	41
77	Enhanced hydrogen production by hydrolysis of NaBH <sub>4</sub> using Co-B nanoparticles supported on Carbon film-catalyst synthesized by pulsed laser deposition. <i>Catalysis Today</i> , 2011, 170, 20-26.	2.2	41
78	Analysis of the hydrogen permeation properties of TiN-TiC bilayers deposited on martensitic stainless steel. <i>Surface and Coatings Technology</i> , 1996, 83, 40-44.	2.2	40
79	Deuterium storage in nanocrystalline magnesium thin films. <i>Journal of Applied Physics</i> , 2004, 95, 1989-1995.	1.1	40
80	Structural evolution of Pd-capped Mg thin films under H <sub>2</sub> absorption and desorption cycles. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 4817-4826.	3.8	40
81	An integrated apparatus for production and measurement of molecular hydrogen. <i>Measurement Science and Technology</i> , 2007, 18, N21-N26.	1.4	39
82	On the thermodynamic path enabling a room-temperature, laser-assisted graphite to nanodiamond transformation. <i>Scientific Reports</i> , 2016, 6, 35244.	1.6	39
83	Effect of annealing and nanostructuring on pulsed laser deposited WS <sub>2</sub> for HER catalysis. <i>Applied Catalysis A: General</i> , 2016, 510, 156-160.	2.2	39
84	Polymer rigidification in graphene based nanocomposites: Gas barrier effects and free volume reduction. <i>Polymer</i> , 2017, 121, 17-25.	1.8	39
85	Pulsed-laser deposition of carbon: from DLC to cluster-assembled films. <i>Thin Solid Films</i> , 2005, 482, 2-8.	0.8	38
86	Enhanced H <sub>2</sub> production from hydrolysis of sodium borohydride using Co <sub>3</sub> O <sub>4</sub> nanoparticles assembled coatings prepared by pulsed laser deposition. <i>Applied Catalysis A: General</i> , 2016, 515, 1-9.	2.2	38
87	Composition changes in bombarded oxides and carbides: the distinction between ballistic, chemically guided, and chemically random behavior. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1993, 80-81, 1154-1163.	0.6	37
88	Ion beam induced enhanced adhesion of Au films deposited on polytetrafluoroethylene. <i>Thin Solid Films</i> , 2002, 420-421, 565-570.	0.8	37
89	Pulsed laser deposition of diamondlike carbon films on polycarbonate. <i>Journal of Applied Physics</i> , 2003, 93, 859-865.	1.1	37
90	Pulsed-Laser Deposition of Nanostructured Iron Oxide Catalysts for Efficient Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 6186-6190.	4.0	37

#	ARTICLE	IF	CITATIONS
91	Ruthenium nanoparticles supported over carbon thin film catalyst synthesized by pulsed laser deposition for hydrogen production from ammonia borane. <i>Applied Catalysis A: General</i> , 2015, 495, 23-29.	2.2	37
92	On the effect of Sn-doping in hematite anodes for oxygen evolution. <i>Electrochimica Acta</i> , 2016, 214, 345-353.	2.6	37
93	Effect of graphene oxide loading on TiO <sub>2</sub> : Morphological, optical, interfacial charge dynamics-A combined experimental and theoretical study. <i>Carbon</i> , 2019, 143, 51-62.	5.4	37
94	Thermodynamic effects in depth profiling and ion-beam mixing without invoking thermal spikes. <i>Applied Physics Letters</i> , 1994, 64, 2649-2651.	1.5	36
95	Pulsed laser deposition apparatus for applied research. <i>Measurement Science and Technology</i> , 1999, 10, 27-30.	1.4	36
96	Pulsed laser deposition of diamond-like carbon films: reducing internal stress by thermal annealing. <i>Applied Surface Science</i> , 2003, 208-209, 561-565.	3.1	36
97	Co nanoparticles supported on carbon film synthesized by pulsed laser deposition for hydrolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2007-2013.	3.8	36
98	Stability, durability, and reusability studies on transition metal-doped Co alloy catalysts for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13379-13391.	3.8	35
99	Clustering of silver atoms in hydrogenated silver-sodium exchanged glasses. <i>Applied Physics A: Materials Science and Processing</i> , 2000, 70, 415-419.	1.1	34
100	Co-P-B catalyst thin films prepared by electroless and pulsed laser deposition for hydrogen generation by hydrolysis of alkaline sodium borohydride: A comparison. <i>Thin Solid Films</i> , 2010, 518, 4779-4785.	0.8	34
101	Mobility and surface recombination processes of primary electrons in dielectric systems during Auger electron spectroscopy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1984, 103, 279-282.	0.9	32
102	DIFFERENTIAL, TOTAL, AND TRANSPORT CROSS SECTIONS FOR ELASTIC SCATTERING OF LOW ENERGY POSITRONS BY NEUTRAL ATOMS (Z= 1-92, E= 500-4000 eV). <i>Atomic Data and Nuclear Data Tables</i> , 1998, 69, 91-100.	0.9	32
103	Influence of annealing atmosphere on metal and metal alloy nanoclusters produced by ion implantation in silica. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2001, 178, 176-179.	0.6	32
104	Nb clusters formation in Nb-doped magnesium hydride. <i>Applied Physics Letters</i> , 2005, 87, 061904.	1.5	31
105	Co-Mo-B-P Alloy with Enhanced Catalytic Properties for H <sub>2</sub> Production by Hydrolysis of Ammonia Borane. <i>Topics in Catalysis</i> , 2012, 55, 1032-1039.	1.3	31
106	Mechanical behaviour of nitrogen-implanted aluminium alloys. <i>Surface and Coatings Technology</i> , 1996, 83, 284-289.	2.2	30
107	3D hierarchical nanostructures of iron oxides coatings prepared by pulsed laser deposition for photocatalytic water purification. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 401-411.	10.8	30
108	Cobalt-Boride Nanostructured Thin Films with High Performance and Stability for Alkaline Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16651-16658.	3.2	30



#	ARTICLE	IF	CITATIONS
109	Exploring the hydrogen evolution capabilities of earth-abundant ternary metal borides for neutral and alkaline water-splitting. <i>Electrochimica Acta</i> , 2020, 354, 136738.	2.6	30
110	Rapid hydrogenation of amorphous TiO <sub>2</sub> to produce efficient H-doped anatase for photocatalytic water splitting. <i>Applied Catalysis A: General</i> , 2015, 500, 69-73.	2.2	29
111	Fast and Sensitive Detection of Paramagnetic Species Using Coupled Charge and Spin Dynamics in Strongly Fluorescent Nanodiamonds. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24412-24422.	4.0	29
112	Electrochemical and corrosion behaviour of laser modified aluminium surfaces. <i>Electrochimica Acta</i> , 1980, 25, 1497-1499.	2.6	28
113	Alkali migration in ion irradiated glasses. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1984, 1, 511-515.	0.6	28
114	On the origin of the different velocity peaks of particles sputtered from surfaces by laser pulses or charged-particle beams. <i>Applied Surface Science</i> , 1999, 138-139, 44-51.	3.1	28
115	Gas-dynamic effects in the laser-pulse sputtering of AlN: is there evidence for phase explosion?. <i>Applied Surface Science</i> , 1998, 133, 251-269.	3.1	27
116	Pulsed laser deposition of glass-like cluster assembled carbon films. <i>Carbon</i> , 2005, 43, 2122-2127.	5.4	27
117	Structural and electrical properties of AlN films deposited using reactive RF magnetron sputtering for solar concentrator application. <i>Applied Surface Science</i> , 2012, 258, 3450-3454.	3.1	27
118	Simulation of phase explosion in the nanosecond laser ablation of aluminum. <i>Journal of Colloid and Interface Science</i> , 2017, 489, 126-130.	5.0	27
119	Sputtering process during ion implantation in glasses: mathematical and physical analysis. <i>Journal of Physics C: Solid State Physics</i> , 1983, 16, 221-228.	1.5	26
120	Cooperative Transport Effects in Electron-Irradiated Glasses. <i>Physical Review Letters</i> , 1985, 54, 1675-1678.	2.9	26
121	Defect diffusion in ion implanted glasses. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1992, 65, 387-391.	0.6	26
122	Laser-irradiation-induced structural changes on graphite. <i>Physical Review B</i> , 1999, 59, 13513-13516.	1.1	26
123	Superior hydrogen production rate by catalytic hydrolysis of ammonia borane using Co-B nanoparticles supported over mesoporous silica particles. <i>Catalysis Communications</i> , 2012, 23, 39-42.	1.6	26
124	Heat flow in an aluminium sample undergoing melting and resolidification under irradiation by a nanosecond laser pulse. <i>Radiation Effects</i> , 1980, 53, 7-17.	0.4	25
125	Angular distribution and expansion of laser ablation plumes measured by fast intensified charge coupled device photographs. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1996, 116, 257-261.	0.6	25
126	Ion-beam mixing with chemical guidance. <i>Surface Science</i> , 1992, 268, 340-350.	0.8	24



#	ARTICLE	IF	CITATIONS
127	Structure and optical properties of TiN films prepared by dc sputtering and by ion beam assisted deposition. <i>Vacuum</i> , 1992, 43, 459-462.	1.6	24
128	Heating effects and gas-dynamic expansion of the plasma plume produced by irradiating a solid with laser pulses. <i>Plasma Sources Science and Technology</i> , 1997, 6, 260-269.	1.3	24
129	Ionic transport model for hydrogen permeation inducing silver nanocluster formation in silver-sodium exchanged glasses. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 67, 527-529.	1.1	24
130	Structural evolution of nanocrystalline Pd-Mg bilayers under deuterium absorption and desorption cycles. <i>Thin Solid Films</i> , 2004, 469-470, 350-355.	0.8	24
131	Catalytic properties on the hydrogen desorption process of metallic additives dispersed in the MgH <sub>2</sub> matrix. <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 58-62.	2.8	24
132	Structural and mechanical properties of ta-C films grown by pulsed laser deposition. <i>Europhysics Letters</i> , 2000, 50, 501-506.	0.7	23
133	Pulsed laser deposition of Co <sub>3</sub> O <sub>4</sub> nanocatalysts for dye degradation and CO oxidation. <i>Applied Surface Science</i> , 2014, 302, 105-108.	3.1	23
134	Title is missing!. <i>European Physical Journal B</i> , 2002, 25, 269-280.	0.6	23
135	Laser irradiation effects on high dose implanted Cu and Pb in polycrystalline aluminum. <i>Radiation Effects</i> , 1980, 46, 133-139.	0.4	22
136	On the application of Darken's analysis to ion-beam mixing. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1991, 59-60, 517-522.	0.6	22
137	Metal-ceramic ion-beam mixing: a quest for general principles. <i>Surface and Coatings Technology</i> , 1996, 83, 134-145.	2.2	22
138	XPS and UPS investigation of the diamond surface oxidation by UV irradiation. <i>Diamond and Related Materials</i> , 2009, 18, 804-807.	1.8	22
139	Atoms and Nanoparticles of Transition Metals as Catalysts for Hydrogen Desorption from Magnesium Hydride. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-11.	1.5	22
140	Liquid nanodroplet formation through phase explosion mechanism in laser-irradiated metal targets. <i>Physical Review E</i> , 2015, 92, 031301.	0.8	22
141	Light-Induced Advanced Oxidation Processes as PFAS Remediation Methods: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8458.	1.3	22
142	Alkali-metal segregation at glass surfaces during electron irradiation. <i>Physical Review B</i> , 1991, 43, 3831-3836.	1.1	21
143	Ion-beam mixing with chemical guidance II: Analysis for positive heats of mixing. <i>Surface and Coatings Technology</i> , 1992, 51, 343-351.	2.2	21
144	Hydrogen dimerization process: A probe for investigation of the $\beta$ -SiO <sub>2</sub> structure. <i>Physical Review B</i> , 1993, 47, 14187-14192.	1.1	21

#	ARTICLE	IF	CITATIONS
145	Hydrogen permeation apparatus with thermal desorption spectroscopy capabilities. <i>Measurement Science and Technology</i> , 1995, 6, 1605-1611.	1.4	21
146	Influence of post-implantation thermal and laser annealing on the stability of metal-alloy nanoclusters in silica. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2001, 175-177, 410-416.	0.6	21
147	The role of oxygen in the one step amination process of nanocrystalline diamond surface. <i>Diamond and Related Materials</i> , 2011, 20, 990-994.	1.8	21
148	Enhanced kinetics of hydride-metal phase transition in magnesium by vacancy clustering. <i>Physical Review B</i> , 2011, 84, .	1.1	21
149	Improved H <sub>2</sub> production rate by hydrolysis of Ammonia Borane using quaternary alloy catalysts. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3313-3322.	3.8	21
150	Realization of a solar hydrothermal carbonization reactor: A zero-energy technology for waste biomass valorization. <i>Journal of Environmental Management</i> , 2020, 259, 110067.	3.8	21
151	Heavy ion irradiation of glasses: Enhanced diffusion and preferential sputtering of alkali elements. <i>Radiation Effects</i> , 1986, 98, 101-108.	0.4	20
152	Characteristics of glass composition modification during heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1987, 19-20, 948-953.	0.6	20
153	Spectrophotometric study of oxide growth on arc evaporated TiN and ZrN coatings during hot air oxidation tests. <i>Thin Solid Films</i> , 1996, 290-291, 289-293.	0.8	20
154	Structural evolution and thermal stability of deuterated titanium thin films. <i>Physical Review B</i> , 1998, 58, 4130-4137.	1.1	20
155	Structure and mechanical properties of low stress tetrahedral amorphous carbon films prepared by pulsed laser deposition. <i>European Physical Journal B</i> , 2002, 25, 269-280.	0.6	20
156	Structural evolution of Fe-Al multilayers submitted to thermal annealing. <i>Thin Solid Films</i> , 2003, 433, 205-210.	0.8	20
157	Synthesis and characterization of polymer embedded LaNi <sub>5</sub> composite material for hydrogen storage. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 4043-4048.	1.3	20
158	The modeling and synthesis of nanodiamonds by laser ablation of graphite and diamond-like carbon in liquid-confined ambient. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	20
159	On the route towards a facile fluorescent nanodiamonds laser-synthesis. <i>Carbon</i> , 2019, 153, 148-155.	5.4	20
160	Pulsed laser deposition of CoFe <sub>2</sub> O <sub>4</sub> /CoO hierarchical-type nanostructured heterojunction forming a Z-scheme for efficient spatial separation of photoinduced electron-hole pairs and highly active surface area. <i>Applied Surface Science</i> , 2019, 489, 584-594.	3.1	20
161	On the role of thermal processes in sputtering and composition changes due to ions or laser pulses. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1998, 141, 49-60.	0.6	19
162	Monte Carlo simulation of positron-stimulated secondary electron emission from solids. <i>Physical Review B</i> , 2000, 61, 5979-5986.	1.1	19

#	ARTICLE	IF	CITATIONS
163	Free volumes and gas transport in polymers: amine-modified epoxy resins as a case study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3817-3824.	1.3	19
164	Field-assisted sodium migration in glasses during medium-energy proton irradiation. <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, 5623-5627.	1.5	18
165	Enhanced diffusion processes in Ar <sup>+</sup> implanted alkali-containing glasses. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1985, 7-8, 517-520.	0.6	18
166	A note on enhanced diffusion and desorption processes in electron-irradiated glasses. <i>Journal of Physics C: Solid State Physics</i> , 1986, 19, 445-452.	1.5	18
167	Oxide growth at a Si surface. <i>Thin Solid Films</i> , 1994, 241, 383-387.	0.8	18
168	Spatial distribution of laser-ablated material by probing a plasma plume in three dimensions. <i>Applied Surface Science</i> , 1996, 96-98, 102-111.	3.1	18
169	Elastic constants of cubic boron nitride films. <i>Applied Physics Letters</i> , 2000, 77, 2168-2170.	1.5	18
170	Hydrogen sorption in metal-polymer composites: The role of interfaces. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	18
171	An all-optical single-step process for production of nanometric-sized fluorescent diamonds. <i>Nanoscale</i> , 2018, 10, 5738-5744.	2.8	18
172	Treatment of surfactant-rich industrial wastewaters with concentrated sunlight: toward solar wastewater remediation. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 2109-2114.	1.8	18
173	Silver cluster formation in ion-exchanged waveguides: processing technique and phenomenological model. <i>Journal of Non-Crystalline Solids</i> , 1999, 253, 261-267.	1.5	17
174	Hard coating adhesion on ion implanted polymer surfaces. <i>Thin Solid Films</i> , 2000, 377-378, 760-765.	0.8	17
175	The pitting behavior of Al-3103 implanted with molybdenum. <i>Corrosion Science</i> , 2001, 43, 85-97.	3.0	17
176	Influence of nano-level molecular packing on the gas transport properties in amine-modified epoxy resins. <i>Polymer</i> , 2015, 58, 130-138.	1.8	17
177	Synthesis and Characterization of Cu and N Codoped RF-Sputtered TiO <sub>2</sub> Films: Photoluminescence Dynamics of Charge Carriers Relevant for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12042-12050.	1.5	17
178	XANES study of vanadium and nitrogen dopants in photocatalytic TiO <sub>2</sub> thin films. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 221-231.	1.3	17
179	Simple approximate analytical expressions for the liquid-solid interface motion and heating and cooling rates in an Al sample irradiated by a nanosecond laser pulse. <i>Radiation Effects</i> , 1980, 53, 19-24.	0.4	16
180	Role of thermal diffusion in the redistribution of Cu during pulsed laser irradiating of Cu-implanted Al. <i>Applied Physics Letters</i> , 1982, 40, 135-137.	1.5	16

#	ARTICLE	IF	CITATIONS
181	Titanium nitride coatings obtained using new apparatus for ion beam assisted deposition. <i>Surface and Coatings Technology</i> , 1991, 49, 150-154.	2.2	16
182	Fractal aspects related to the Si oxidation process. <i>Physical Review B</i> , 1995, 51, 5469-5472.	1.1	16
183	Chemical, mechanical and electrical properties of CN <sub>x</sub> -films produced by reactive sputtering and N <sup>+</sup> -implantation in carbon films. <i>Applied Surface Science</i> , 1996, 99, 273-284.	3.1	16
184	Slow electrons impinging on dielectric solids. I. Basic aspects. <i>Physical Review B</i> , 1997, 56, 2234-2240.	1.1	16
185	Backscattered electrons from gold surface films deposited on silicon substrates: a joint experimental and computational investigation to add new potentiality to electron microscopy. <i>Surface and Interface Analysis</i> , 2013, 45, 677-681.	0.8	16
186	Pulsed laser deposition of cluster-assembled films for catalysis and the photocatalysis relevant to energy and the environment. <i>Applied Surface Science</i> , 2013, 278, 19-25.	3.1	16
187	Alkali signal decay during auger analysis of dielectric solids: Secondary effect of desorption process. <i>Radiation Effects</i> , 1984, 83, 271-277.	0.4	15
188	Time-dependent evolution of thin TiN films prepared by ion beam assisted deposition. <i>Journal of Applied Physics</i> , 1999, 86, 5566-5572.	1.1	15
189	Mg:Nb films produced by pulsed laser deposition for hydrogen storage. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 108, 33-37.	1.7	15
190	Synthesis of mesoporous ITO/TiO <sub>2</sub> electrodes for optoelectronics. <i>Materials Letters</i> , 2015, 139, 355-358.	1.3	15
191	Porous versus Compact Nanosized Fe(III)-Based Water Oxidation Catalyst for Photoanodes Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 20003-20011.	4.0	15
192	New evidence for the Soret effect in pulsed laser experiments. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1982, 87, 317-320.	0.9	14
193	Mixed alkali effect in glasses: A new model using the thermodynamics of irreversible processes. <i>Journal of Non-Crystalline Solids</i> , 1987, 95-96, 897-904.	1.5	14
194	Enhanced diffusion processes during heavy ion irradiation of glasses. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1988, 32, 315-317.	0.6	14
195	Laser irradiation effects in Si <sup>+</sup> -implanted SiO <sub>2</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1992, 65, 217-222.	0.6	14
196	Composition changes in Ar <sup>+</sup> and e <sup>-</sup> -bombarded SiC: an attempt to distinguish ballistic and chemically guided effects. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1993, 80-81, 931-937.	0.6	14
197	Synthesis and structural characterization of boron nitride thin films. <i>Thin Solid Films</i> , 1994, 253, 78-84.	0.8	14
198	Process parameters optimization for TiN and TiC formation using reactive ion beam assisted deposition. <i>Surface and Coatings Technology</i> , 1998, 100-101, 500-502.	2.2	14

#	ARTICLE	IF	CITATIONS
199	Morphological changes induced on aluminum surfaces by excimer laser irradiation. Applied Surface Science, 2002, 186, 211-215.	3.1	14
200	High temperature ion beam erosion of polytetrafluoroethylene. Thin Solid Films, 2004, 459, 318-322.	0.8	14
201	Laser cleaning of ancient textiles. Applied Surface Science, 2005, 247, 369-372.	3.1	14
202	Pulsed-laser deposition of nanostructured Pd/C thin films. Applied Surface Science, 2007, 254, 1307-1311.	3.1	14
203	Low energy ion-beam modification of TiO <sub>2</sub> photocatalyst thin film for visible light absorption. Surface and Coatings Technology, 2009, 203, 2579-2583.	2.2	14
204	Backscattered electrons from surface films deposited on bulk targets: A comparison between computational and experimental results. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1672-1674.	0.6	14
205	Cobalt/cobalt oxide nanoparticles-assembled coatings with various morphology and composition synthesized by pulsed laser deposition. Surface and Coatings Technology, 2013, 235, 784-791.	2.2	14
206	Pulsed laser deposition of nanostructured Co-B-O thin films as efficient catalyst for hydrogen production. Applied Surface Science, 2016, 387, 358-365.	3.1	14
207	An innovative small-scale prototype plant integrating a solar dish concentrator with a molten salt storage system. Renewable Energy, 2018, 123, 150-161.	4.3	14
208	Study of Gaseous Interactions on Co <sub>3</sub> O <sub>4</sub> Thin Film Coatings by Ambient Pressure Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 24511-24519.	1.5	14
209	Pulsed laser deposition of nanostructured tungsten oxide films: A catalyst for water remediation with concentrated sunlight. Materials Science in Semiconductor Processing, 2020, 119, 105237.	1.9	14
210	A survey of existing theories and a new proposal regarding ionic conductivity in mixed-alkali silicate glasses. Journal of Non-Crystalline Solids, 1988, 104, 211-218.	1.5	13
211	Ion-beam mixing with chemical guidance part III: phase formation as a kinetic rather than thermodynamic phenomenon. Thin Solid Films, 1994, 241, 192-197.	0.8	13
212	Phase formation and stability of N <sup>+</sup> -implanted SiC thin films. Journal of Applied Physics, 1997, 81, 146-149.	1.1	13
213	Vibrational spectroscopy of mixed hexagonal-cubic boron nitride thin films. Thin Solid Films, 1997, 308-309, 107-112.	0.8	13
214	Backscattering of electrons from selected oxides: MgO, SiO <sub>2</sub> , and Al <sub>2</sub> O <sub>3</sub> . EPJ Applied Physics, 1999, 5, 143-148.	0.3	13
215	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
216	Construction method and optical characterization of parabolic solar modules for concentration systems. Solar Energy, 2013, 94, 19-27.	2.9	13

#	ARTICLE	IF	CITATIONS
217	Pulsed laser deposition of nickel oxide films with improved optical properties to functionalize solar light absorbing photoanodes and very low overpotential for water oxidation catalysis. <i>Materials Science in Semiconductor Processing</i> , 2019, 97, 29-34.	1.9	13
218	Laser-pulse sputtering of aluminium: gas-dynamic effects with recondensation and reflection conditions at the Knudsen layer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1995, 101, 148-155.	0.6	12
219	Glazing of ceramic surfaces with high-intensity pulsed ion beams. <i>Surface and Coatings Technology</i> , 1996, 84, 329-333.	2.2	12
220	5. Plume Formation and Characterization in Laser-Surface Interactions. <i>Experimental Methods in the Physical Sciences</i> , 1997, 30, 225-289.	0.1	12
221	Low-temperature deposition of cubic boron nitride thin films. <i>Europhysics Letters</i> , 1998, 44, 627-633.	0.7	12
222	Control of cluster synthesis in nano-glassy carbon films. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1860-1864.	1.5	12
223	H <sub>2</sub> storage efficiency and sorption kinetics in composite materials. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2160-2163.	1.9	12
224	Niobium aggregation and vacancylike defect evolution in nanostructured Nb-doped Mg: Their role in the kinetics of the hydride-to-metal phase transformation. <i>Physical Review B</i> , 2012, 85, .	1.1	12
225	Upgraded production of (1R,5S)-1-hydroxy-3,6-dioxo-bicyclo[3.2.1]octan-2-one from cellulose catalytic pyrolysis and its detection in bio-oils by spectroscopic methods. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 110, 285-290.	2.6	12
226	Physical vapor deposition of mixed-metal oxides based on Fe, Co and Ni as water oxidation catalysts. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 155-158.	1.9	12
227	Dynamics of liquid nanodroplet formation in nanosecond laser ablation of metals. <i>Applied Surface Science</i> , 2017, 418, 601-606.	3.1	12
228	Ionic conductivity in mixed-alkali silicate glasses: A phenomenological model. <i>Journal of Non-Crystalline Solids</i> , 1987, 94, 181-185.	1.5	11
229	Transport processes in solids during ion implantation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1989, 115, 1-10.	2.6	11
230	Sodium transport in $\alpha$ -alumina crystals under argon ion bombardment. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1990, 46, 107-110.	0.6	11
231	Elastic behaviour of TiN thin films. <i>Thin Solid Films</i> , 1993, 236, 209-213.	0.8	11
232	A study of deuterium permeation through thin BN films. <i>Thin Solid Films</i> , 1997, 299, 5-9.	0.8	11
233	The corrosion behavior of Zn coatings on Al-3103 alloy. <i>Surface and Coatings Technology</i> , 2001, 141, 187-193.	2.2	11
234	High temperature efficient deuterium permeation and oxidation (Al,Ti)N barriers deposited on stainless steel. <i>Applied Physics Letters</i> , 2002, 81, 3762-3764.	1.5	11

#	ARTICLE	IF	CITATIONS
235	Aluminum and iron surface modification by deuterium ion implantation and thermal desorption process. Surface and Coatings Technology, 2002, 158-159, 356-363.	2.2	11
236	Deuterium storage in Mgâ€“Nb films. Journal of Alloys and Compounds, 2005, 404-406, 461-464.	2.8	11
237	Deuterium thermal desorption from Ni-rich deuterated Mg thin films. Renewable Energy, 2008, 33, 232-236.	4.3	11
238	Catalytic effect of mixed Zrâ€“Fe additives on the hydrogen desorption kinetics of MgH <sub>2</sub> . Applied Physics Letters, 2008, 92, 051910.	1.5	11
239	Roles of Vanadium and Nitrogen in Photocatalytic Activity of $\text{VN}$ -Codoped $\text{TiO}_2$ Photocatalyst. Photochemistry and Photobiology, 2018, 94, 955-964.	1.3	11
240	Exothermicity of hydrothermal carbonization: Determination of heat profile and enthalpy of reaction via high-pressure differential scanning calorimetry. Fuel, 2022, 310, 122312.	3.4	11
241	Enhanced diffusion processes during ion implantation: A numerical analysis. Journal of Applied Physics, 1983, 54, 4235-4237.	1.1	10
242	Radiation enhanced diffusion in glasses. Nuclear Instruments & Methods in Physics Research B, 1988, 32, 258-263.	0.6	10
243	Chemical and compositional changes induced by ion implantation in SiC and resulting hydrogen permeation properties. Surface and Coatings Technology, 1994, 65, 45-56.	2.2	10
244	Reply to "Comment on "Ion-beam mixing with chemical guidance. IV. Thermodynamic effects without invoking thermal spikes" by D. Marton and J. Fine". Surface Science, 1995, 329, 289-292.	0.8	10
245	Deuterium permeation through SiO <sub>2</sub> thin film deposited on stainless steel substrate. Journal of Non-Crystalline Solids, 1997, 216, 65-70.	1.5	10
246	Composition changes in N <sub>2</sub> <sup>+</sup> bombarded Ti/Si bilayers and multilayers: interplay between random and chemically guided effects. Nuclear Instruments & Methods in Physics Research B, 1997, 127-128, 102-106.	0.6	10
247	Ion beam-induced enhanced adhesion of gold films deposited on glass. Surface and Coatings Technology, 2002, 158-159, 558-562.	2.2	10
248	Structure modification of Mgâ€“Nb films under hydrogen sorption cycles. Journal of Alloys and Compounds, 2011, 509, S572-S575.	2.8	10
249	Multilayer films of indium tin oxide/TiO <sub>2</sub> codoped with vanadium and nitrogen for efficient photocatalytic water splitting. International Journal of Nanotechnology, 2014, 11, 1017.	0.1	10
250	Improvement of the electron collection efficiency in porous hematite using a thin iron oxide underlayer: towards efficient all-iron based photoelectrodes. Physical Chemistry Chemical Physics, 2015, 17, 29661-29670.	1.3	10
251	Laser-Induced Thermal Processes: Heat Transfer, Generation of Stresses, Melting and Solidification, Vaporization, and Phase Explosion. , 2021, , 83-163.		10
252	Evidence of an enhanced diffusion process in electron-irradiated glasses: a critical analysis of available experimental and theoretical results. Journal of Physics C: Solid State Physics, 1984, 17, 3009-3017.	1.5	9



#	ARTICLE	IF	CITATIONS
253	Ionic conductivity in binary alkali silicate system: A phenomenological model. Journal of Non-Crystalline Solids, 1987, 94, 175-180.	1.5	9
254	Hydrogen permeation in amorphous-SiC/stainless steel bilayers. Journal Physics D: Applied Physics, 1994, 27, 1687-1690.	1.3	9
255	Fast particle irradiation of solids: Excitation of secondary electrons and the related energy-deposition function. Nuclear Instruments & Methods in Physics Research B, 1998, 141, 16-24.	0.6	9
256	Structural evolution of nanoporous silica thin films studied by positron annihilation spectroscopy and Fourier transform infrared spectroscopy. Journal Physics D: Applied Physics, 2007, 40, 5266-5274.	1.3	9
257	Nanolayers on nanochannels for hydrogen purification. Journal of Applied Physics, 2009, 105, .	1.1	9
258	XPS and UPS in situ study of oxygen thermal desorption from nanocrystalline diamond surface oxidized by different process. Diamond and Related Materials, 2011, 20, 560-563.	1.8	9
259	Dense array connections for photovoltaic systems in concentration. Progress in Photovoltaics: Research and Applications, 2011, 19, 379-390.	4.4	9
260	In Situ X-ray Absorption Spectroscopy and X-ray Diffraction Investigation of Nb-H Nanoclusters in MgH <sub>2</sub> during Hydrogen Desorption. Journal of Physical Chemistry C, 2015, 119, 7765-7770.	1.5	9
261	Interfaces in biopolymer nanocomposites: Their role in the gas barrier properties and kinetics of residual solvent desorption. Applied Surface Science, 2020, 507, 145066.	3.1	9
262	Electron beam induced heat flow transient in aluminum. Radiation Effects, 1983, 69, 1-17.	0.4	8
263	Surface temperature increment during proton irradiation of soda-lime glasses. Journal of Physics C: Solid State Physics, 1983, 16, 6329-6333.	1.5	8
264	Pulsed laser treatment of La-implanted Ni single crystals. Journal of Applied Physics, 1984, 55, 3773-3778.	1.1	8
265	Improvement in mechanical properties by ion implantation of SiC films deposited on steel and copper. Surface and Coatings Technology, 1994, 66, 458-463.	2.2	8
266	Thermodynamic effects in the ion-beam mixing of Fe-Al and Mo-Cr multilayers. Journal of Applied Physics, 1996, 80, 2702-2711.	1.1	8
267	Microstructural characterization of carbon films and films produced by implantation. Journal of Physics Condensed Matter, 1997, 9, 1743-1761.	0.7	8
268	Interplay between random and chemically guided effects in Kr <sup>+</sup> -bombarded Ti/Si bilayers. Surface and Coatings Technology, 1998, 103-104, 25-28.	2.2	8
269	Pulsed laser ablation of borax target in vacuum and hydrogen DC glow discharges. Applied Surface Science, 2006, 252, 7904-7910.	3.1	8
270	Laser cleaning of artificially aged textiles. Applied Physics A: Materials Science and Processing, 2006, 83, 651-655.	1.1	8

#	ARTICLE	IF	CITATIONS
271	Two-step growth mechanism of supported Co <sub>3</sub> O <sub>4</sub> -based sea-urchin like hierarchical nanostructures. Applied Surface Science, 2018, 439, 876-882.	3.1	8
272	Effective temperature in the impact surface region during 100 keV Xe <sup>+</sup> implantation of copper bars. Applied Physics A: Solids and Surfaces, 1985, 36, 139-141.	1.4	7
273	Ionic conductivity in glass network. Journal of Non-Crystalline Solids, 1990, 123, 321-323.	1.5	7
274	Phenomenological aspects of electrical conductivity in binary and mixed alkali borate glasses. Journal of Non-Crystalline Solids, 1990, 125, 302-307.	1.5	7
275	Ion-beam mixing of Al-Fe multilayer films. Nuclear Instruments & Methods in Physics Research B, 1991, 59-60, 541-544.	0.6	7
276	Metal-ion release from titanium and TiN coated implants in rat bone. Nuclear Instruments & Methods in Physics Research B, 1993, 79, 421-423.	0.6	7
277	N <sup>+</sup> implantation induced enhanced adhesion of amorphous SiC films deposited on stainless steel. Applied Physics Letters, 1994, 64, 977-979.	1.5	7
278	Microstructure and mechanical properties of a N <sup>+</sup> implanted Al alloy. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1997, 76, 549-557.	0.6	7
279	Nitrogen effects on the microstructural evolution of carbon films under thermal annealing. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 553-558.	0.6	7
280	A new approach to thermal-spike sputtering with ions and laser pulses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 253, 178-193.	2.6	7
281	Structure and mechanical properties of nanocrystalline boron nitride thin films. Applied Organometallic Chemistry, 2001, 15, 430-434.	1.7	7
282	Pulsed laser deposition of nano-glassy carbon films. Applied Surface Science, 2005, 248, 334-339.	3.1	7
283	Preliminary Laser Cleaning Studies of a Consolidated Prehistoric Basketry Coming from the Pile Building of FiaV-Carera in the North-East of Italy. Laser Chemistry, 2006, 2006, 1-5.	0.5	7
284	Anomalous molecular infiltration in graphene laminates. Physical Chemistry Chemical Physics, 2018, 20, 24671-24680.	1.3	7
285	Chloroform desorption from poly(lactic acid) nanocomposites: a thermal desorption spectroscopy study. Pure and Applied Chemistry, 2020, 92, 391-398.	0.9	7
286	Laser-Induced Thermal Processes: Heat Transfer, Generation of Stresses, Melting and Solidification, Vaporization, and Phase Explosion. , 2020, , 1-81.		7
287	On the thermal effect of ion implantation. Nuclear Instruments & Methods in Physics Research, 1983, 209-210, 1117-1120.	0.9	6
288	Surface effects controlling electron-stimulated oxidation of silicon. Philosophical Magazine Letters, 1987, 55, 53-58.	0.5	6

#	ARTICLE	IF	CITATIONS
289	Analysis of ionic conductivity in alkali and mixed-alkali aluminosilicate glasses. Journal of Non-Crystalline Solids, 1988, 105, 307-312.	1.5	6
290	The Soret effect in laser-irradiated quartz (liquid phase). Journal of Physics Condensed Matter, 1989, 1, 3363-3367.	0.7	6
291	Deposition by pulsed erosion of nickel and aluminum on copper. Surface and Coatings Technology, 1994, 66, 300-304.	2.2	6
292	Phase formation in the N-B-Ti system. Vacuum, 1995, 46, 951-954.	1.6	6
293	Deuterium diffusion through hexagonal boron nitride thin films. Journal of Applied Physics, 2000, 87, 110-116.	1.1	6
294	Microstructure dependence of low-temperature elastic properties in amorphous diamondlike carbon films. Physical Review B, 2005, 71, .	1.1	6
295	CO <sub>2</sub> Laser irradiation of GeO <sub>2</sub> planar waveguide fabricated by rf-sputtering. IOP Conference Series: Materials Science and Engineering, 2015, 73, 012006.	0.3	6
296	Functionalized p-silicon photocathodes for solar fuels applications: Insights from electrochemical impedance spectroscopy. Electrochimica Acta, 2018, 271, 472-480.	2.6	6
297	Laser-Synthesis of NV-Centers-Enriched Nanodiamonds: Effect of Different Nitrogen Sources. Micromachines, 2020, 11, 579.	1.4	6
298	Buried Optical Guide Formation. Proceedings of SPIE, 1989, 1128, 117.	0.8	5
299	Influence of the Shape and Size of the Laser Spot on the Spatial Distribution of the Plasma Plume. Materials Research Society Symposia Proceedings, 1995, 397, 87.	0.1	5
300	Study of Nitrogen Implanted in Aluminum at Various Doses. Materials and Manufacturing Processes, 1995, 10, 171-182.	2.7	5
301	Hydrogen desorption from crystalline quartz and some related differential-scanning calorimetry and conductivity phenomena. Solid State Communications, 1996, 98, 917-922.	0.9	5
302	On the question of whether ion-beam mixing of Fe-Al and Mo-Cr multilayers is governed more nearly by ballistic effects, residual defects, or thermal-spike effects. Surface and Coatings Technology, 1996, 83, 156-161.	2.2	5
303	Spectroscopic characterisation of DLC films deposited on polycarbonate by pulsed laser ablation. Surface and Coatings Technology, 2002, 151-152, 303-307.	2.2	5
304	Laser fluence dependence of the elastic properties of diamond-like carbon films prepared by pulsed-laser deposition. Applied Surface Science, 2007, 253, 6480-6486.	3.1	5
305	Structural characterization and porosity analysis in spin coated silica thin films as gas selective membranes. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3823-3826.	0.8	5
306	Porosity depth profiling of spin-coated silica thin films produced by different precursors sols. Applied Surface Science, 2008, 255, 170-173.	3.1	5

#	ARTICLE	IF	CITATIONS
307	Synergy on catalytic effect of Fe-Zr additives mixed in different proportions on the hydrogen desorption from MgH <sub>2</sub> . Applied Physics Letters, 2009, 94, .	1.5	5
308	Laser Ablation of Aluminum Near the Critical Regime: A Computational Gas-Dynamical Model with Temperature-Dependent Physical Parameters. Micromachines, 2021, 12, 300.	1.4	5
309	Evaluation of the role of beam homogeneity on the mechanical coupling of laser-ablation-generated impulse. Applied Optics, 2021, 60, H37.	0.9	5
310	A simple mathematical and physical analysis of non-equilibrium segregation effects in a freezing liquid aluminum layer after a nanosecond laser pulse irradiation. Radiation Effects, 1981, 55, 235-242.	0.4	4
311	Microscopic Mechanisms Governing Alkali-Metal Transport in Electron-Irradiated Glasses. Physical Review Letters, 1986, 56, 1940-1943.	2.9	4
312	Physical aspects in glass surface analysis. Journal of Non-Crystalline Solids, 1987, 95-96, 161-172.	1.5	4
313	Network relaxation processes governing alkali-metal transport in electron-irradiated glasses. Nuclear Instruments & Methods in Physics Research B, 1987, 19-20, 934-937.	0.6	4
314	Sodium profiles in $\gamma$ -alumina crystals: Modifications induced by argon bombardment. Radiation Effects and Defects in Solids, 1991, 118, 287-293.	0.4	4
315	N <sup>+</sup> -implantation induced enhanced adhesion in. Applied Surface Science, 1996, 103, 315-329.	3.1	4
316	Structure and optical properties of boron nitride thin films deposited by radio-frequency sputtering on polycarbonate. Journal of Physics Condensed Matter, 2000, 12, 9215-9220.	0.7	4
317	BN coating adhesion on ion-implanted polymer surfaces. Thin Solid Films, 2001, 398-399, 222-227.	0.8	4
318	Deuterium thermal desorption from FeAl thin films. Journal of Physics Condensed Matter, 2002, 14, 6307-6320.	0.7	4
319	Structural and elastic properties of cubic boron nitride films. Surface and Coatings Technology, 2002, 151-152, 151-154.	2.2	4
320	Deuterium thermal desorption from FeTi thin films. Journal of Alloys and Compounds, 2003, 356-357, 521-525.	2.8	4
321	Hydrogen sorption kinetics in Nb doped Mg: role of Nb clustering and open volume defects formation. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2310-2312.	0.8	4
322	Electrophoretic deposition of colloidal TiO <sub>2</sub> nanorods towards nano-porous thin-films. Materials Letters, 2016, 174, 226-229.	1.3	4
323	Morphological and Elemental Investigations on Co-Fe-O Thin Films Deposited by Pulsed Laser Deposition for Alkaline Water Oxidation: Charge Exchange Efficiency as the Prevailing Factor in Comparison with the Adsorption Process. Catalysis Letters, 2022, 152, 438-451.	1.4	4
324	Structural Studies of Titanium Oxide Multilayers. Acta Physica Polonica A, 2005, 107, 977-982.	0.2	4

#	ARTICLE	IF	CITATIONS
325	Mazzoldiet al.Respond. Physical Review Letters, 1981, 46, 1251-1251.	2.9	3
326	Liquid-amorphous phase transition in Si under nanosecond laser irradiating: Discussion of a simple thermal model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 98, 367-370.	0.9	3
327	Ionic conductivity in a network of silicate glasses: Extension of a previous model to three-component glasses. Journal of Non-Crystalline Solids, 1989, 107, 283-288.	1.5	3
328	Hydrogen analysis in sodium $\hat{2}\hat{e}^3$ -alumina implanted with argon ions. Nuclear Instruments & Methods in Physics Research B, 1990, 46, 152-155.	0.6	3
329	A new model for the hydrogen dimerization in $\hat{1}\pm$ -SiO <sub>2</sub> . Physica A: Statistical Mechanics and Its Applications, 1992, 191, 182-185.	1.2	3
330	Nitrogen $\hat{e}$ implantation induced enhanced adhesion of amorphous SiC films deposited on stainless steel and Cu. Journal of Applied Physics, 1994, 76, 285-294.	1.1	3
331	Thermodynamic effects on ion-beam mixing in SiC-metal systems. Surface and Interface Analysis, 1994, 21, 370-377.	0.8	3
332	Numerical solution of gas-dynamic equations with boundary conditions for reflection and recondensation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 199, 333-338.	0.9	3
333	Synthesis of mixed hexagonal-cubic BN thin films at low temperature. Applied Surface Science, 1997, 108, 33-38.	3.1	3
334	Electron irradiation of dielectric solids: surface electric field calculation. Surface and Interface Analysis, 1998, 26, 531-533.	0.8	3
335	Differential scanning calorimetry and thermal desorption analysis of crystalline synthetic quartz. Chemical Physics Letters, 1999, 306, 330-334.	1.2	3
336	Hydrodynamic effects on the molten surface of a laser-irradiated aluminum sample. Applied Surface Science, 2003, 208-209, 263-266.	3.1	3
337	Ion beam assisted deposition of lubricant Ag(Au) films on non-planar steel substrates. Surface and Coatings Technology, 2004, 180-181, 41-43.	2.2	3
338	Hydrogen permeation through a slab sample in the case of high hydrogen concentration. Thin Solid Films, 2006, 496, 735-739.	0.8	3
339	Pulsed Laser Deposition of Carbon Films: Tailoring Structure and Properties. , 0, , 359-380.		3
340	Deposition of soft self-lubricant metals on steel: Improved adhesion by ion beam and tests on non planar geometry. Surface and Coatings Technology, 2009, 203, 2575-2578.	2.2	3
341	Visible light photocatalytic degradation of 4-chlorophenol using vanadium and nitrogen co-doped TiO[sub 2]. , 2013, , .		3
342	Nano-voids in epoxy resins: Role in the transport of light gases. Polymer, 2017, 113, 147-155.	1.8	3

#	ARTICLE	IF	CITATIONS
343	Laser-Inducing Extreme Thermodynamic Conditions in Condensed Matter to Produce Nanomaterials for Catalysis and the Photocatalysis. Springer Series in Materials Science, 2018, , 89-106.	0.4	3
344	Rational Design Combining Morphology and Charge-Dynamic for Hematite/Nickel-iron Oxide Thin-Layer Photoanodes: Insights into the Role of the Absorber/Catalyst Junction. ACS Applied Materials & Interfaces, 2019, 11, 48002-48012.	4.0	3
345	Fabricating multilayer antireflective coating for near complete transmittance in broadband visible light spectrum. Optical Materials, 2020, 108, 110415.	1.7	3
346	Fluorescent Nanodiamonds Synthesized in One-Step by Pulsed Laser Ablation of Graphite in Liquid-Nitrogen. Journal of Carbon Research, 2021, 7, 49.	1.4	3
347	ALKALI MIGRATION IN GLASSES ON ELECTRON, PROTON AND HEAVIER ION IRRADIATIONS. Journal De Physique Colloque, 1982, 43, C9-645-C9-648.	0.2	3
348	Monte Carlo Simulation of Few-keV Positrons Penetrating in Solids. , 2001, , 43-47.		3
349	Poly(vinyl chloride) Coupling with UV Laser Radiation: Comparison between Polymer Absorbers and Nanoparticles to Increase Efficiency for Laser Ablation Propulsion. Journal of Physical Chemistry C, 2021, 125, 28088-28099.	1.5	3
350	An immobilized iron-oxides catalytic platform for photocatalysis and photosynthesis: Visible light induced hydroxylation reactions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129428.	2.3	3
351	Auger electron spectroscopy in glasses: Correlation effects. Nuclear Instruments & Methods in Physics Research B, 1988, 32, 318-320.	0.6	2
352	On the activation energy in radiation enhanced diffusion of silver in nickel. Journal of Physics Condensed Matter, 1989, 1, 10619-10623.	0.7	2
353	Effects on the implanted profiles of point defect flux during nitrogen implantation in copper. Applied Surface Science, 1989, 43, 237-241.	3.1	2
354	A new model for dielectric relaxation and transport processes in mixed-alkali silicate glasses. Journal of Physics Condensed Matter, 1991, 3, 623-629.	0.7	2
355	Ion implantation and ion beam assisted deposition onto cemented tungsten carbide and sialon. Nuclear Instruments & Methods in Physics Research B, 1993, 80-81, 1097-1100.	0.6	2
356	Oxide growth at a Si surface and role of radiation effects. Nuclear Instruments & Methods in Physics Research B, 1994, 91, 648-653.	0.6	2
357	Excimer laser irradiation at 248Ånm of wooden archaeological objects and polymeric consolidants used in conservation: a study of cone formation and optimum cleaning parameters. Applied Physics A: Materials Science and Processing, 2008, 92, 217-221.	1.1	2
358	XPS Study of <i>In Situ</i> One-Step Amination of Nanocrystalline Diamond Films. Advances in Science and Technology, 2010, 71, 45-49.	0.2	2
359	Magnesium growth in magnesium deuteride thin films during deuterium desorption. Journal of Alloys and Compounds, 2013, 580, S29-S32.	2.8	2
360	Estimation of the nonstructural contribution to the gibbs free energy of aluminum at melting. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1986, 7, 854-858.	0.4	1

#	ARTICLE	IF	CITATIONS
361	Electric fields induced in alkali-containing glasses by electron irradiation. Journal of Physics C: Solid State Physics, 1986, 19, L201-L206.	1.5	1
362	Thermal energy balances in ion implanted copper bars. Physica Status Solidi A, 1987, 100, 53-57.	1.7	1
363	microscopic structure of the solid-liquid interface of aluminum. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1987, 9, 141-155.	0.4	1
364	Comment on "Laser-induced reemission of silicon atoms implanted into quartz" [J. Appl. Phys. 64, 3663 (1988)]. Journal of Applied Physics, 1989, 66, 5659-5660.	1.1	1
365	Possible mechanism for Pb segregation at the solid-liquid aluminium interface. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1990, 12, 813-830.	0.4	1
366	Nanosecond laser pulses inducing melting of Si <sup>+</sup> -implanted SiO <sub>2</sub> . Journal of Physics Condensed Matter, 1990, 2, 2751-2755.	0.7	1
367	Elastic Properties of Sputtered Thin Films: Influence of Different Preparation Conditions. Materials Research Society Symposia Proceedings, 1993, 308, 95.	0.1	1
368	STUDY OF HYDROGEN DIFFUSION BEHAVIOUR IN PVD DEPOSITED AND ION BOMBARDED THIN TiN FILM BARRIERS ON NUCLEAR GRADE 316 L STAINLESS STEEL. , 1993, , 196-200.		1
369	Surface and interface analysis of titanium nitride diffusion barriers. Mikrochimica Acta, 1994, 114-115, 213-220.	2.5	1
370	Tem Investigation and Hardness Improvement of A N <sup>+</sup> Implanted Al-Alloy. Materials Research Society Symposia Proceedings, 1995, 400, 287.	0.1	1
371	New structural features of non-crystalline SiO <sub>2</sub> as revealed by the analysis of the transport properties of hydrogen and oxygen. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 71, 741-750.	0.6	1
372	Comments on explosive mechanisms of laser sputtering. , 1996, , 205-215.		1
373	Peculiar aspects related to the hydrogen permeation flux through a martensitic steel membrane before and after ion implantation. Surface and Coatings Technology, 1996, 83, 36-39.	2.2	1
374	Ageing effects of thin films prepared by ion beam assisted deposition: a multi-technique characterization. Thin Solid Films, 1996, 290-291, 401-405.	0.8	1
375	Title is missing!. Journal of Materials Science Letters, 1998, 17, 637-639.	0.5	1
376	Depth-profiling via X-Ray photoemission and Auger spectroscopies of N <sup>+</sup> implanted tungsten carbides grown on the Ti-6Al-4V alloy. Thin Solid Films, 1998, 317, 477-480.	0.8	1
377	Ar <sup>+</sup> -implantation effects on the interfacial properties of the WC/Ti-6Al-4V system. Surface and Coatings Technology, 1998, 100-101, 358-361.	2.2	1
378	Numerical simulation of hydrogen desorption from thin metallic films. Nuclear Instruments & Methods in Physics Research B, 2007, 255, 92-94.	0.6	1



#	ARTICLE	IF	CITATIONS
379	Reducing Hydrogen Permeation through Metals. Defect and Diffusion Forum, 2011, 312-315, 560-565.	0.4	1
380	Growth of Pb-nanowires in one single process by co-sputtering of Al-Pb targets. Surface and Coatings Technology, 2012, 206, 3104-3108.	2.2	1
381	Study of interaction of ZnO nanoparticles with human serum albumin using fluorescence spectroscopy. , 2013, , .		1
382	Esterase activity of BSA-ZnO nanoparticle complex. AIP Conference Proceedings, 2014, , .	0.3	1
383	Ion Beam Induced Ni-Ag Mixing. NATO ASI Series Series B: Physics, 1991, , 687-691.	0.2	1
384	Disorder, Randomness, and Amorphous Phases. , 1989, , 27-45.		1
385	Harvesting Clean Energy Through H2 Production Using Cobalt-Boride-Based Nanocatalyst. , 2017, , 35-56.		1
386	A new apparatus for carbon monoxide oxidation studies performed over thin film catalysts. Measurement Science and Technology, 2013, 24, 125901.	1.4	1
387	Nano-cluster Assembled Films, Produced by Pulsed Laser Deposition, for Catalysis and the Photocatalysis. Springer Series in Materials Science, 2014, , 213-225.	0.4	1
388	Spatial distribution of laser-ablated material by probing a plasma plume in three dimensions. , 1996, , 102-111.		1
389	Interplay of Soret vs. Normal Impurity Diffusion During Laser or E-Beam Induced Heat Flow Transients in Metals. Materials Research Society Symposia Proceedings, 1981, 4, 425.	0.1	0
390	Energy loss from metallic systems during ion implantation. Radiation Effects, 1983, 68, 179-185.	0.4	0
391	Effects of preferential sputtering and enhanced diffusion processes on the evolution of La-implanted profile in Ni. Journal of Applied Physics, 1985, 57, 2977-2979.	1.1	0
392	Analysis of temperature and enhanced diffusion effects in sputtering of CrSi2. Applied Physics A: Materials Science and Processing, 1986, 40, 85-89.	1.1	0
393	Intrinsic Johnson noise in a rf-SQUID: A numerical analysis. IEEE Transactions on Magnetics, 1987, 23, 1090-1092.	1.2	0
394	Analysis of Transport Phenomena Occurring in Electron-Irradiated Sodium $\hat{\text{I}}^2$ -Alumina Crystals. Materials Research Society Symposia Proceedings, 1988, 135, 505.	0.1	0
395	On the Role of a Defect Flux on the Redistribution of Silver Atoms in Silver-Nickel Multilayer Films under Ion Bombardment. Physica Status Solidi A, 1992, 133, 25-31.	1.7	0
396	Radiation-induced redistribution of implanted impurities in Al. Surface and Coatings Technology, 1996, 83, 88-92.	2.2	0

#	ARTICLE	IF	CITATIONS
397	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
398	Thermal Stability of Hydrogenated Mg/Al Thin Films. AIP Conference Proceedings, 2006, , .	0.3	0
399	Simulation studies of radiation induced segregation in 316SS. Surface and Coatings Technology, 2007, 201, 8424-8426.	2.2	0
400	Synthesis of Lead Nanowires in a Single Co-Sputtering Deposition Step. Journal of Nanoscience and Nanotechnology, 2012, 12, 8759-8763.	0.9	0
401	Co-B nanoparticles supported over FSM type mesoporous silica: An efficient nanocatalyst for hydrogen production by hydrolysis of ammonia borane. , 2013, , .		0
402	Gas transport and free volume study in polyethylene based epoxy membranes. Journal of Physics: Conference Series, 2015, 618, 012036.	0.3	0
403	Stress induced growth of Sn nanowires in a single step by sputtering method. AIP Conference Proceedings, 2015, , .	0.3	0
404	Ion-Surface Interactions: Collisional Sputtering, Thermal Sputtering, Ion-Beam Mixing, Compositional Change. , 1995, , 67-109.		0
405	Low Temperature Deposition and Characterization of BN Thin Films. , 1997, , 345-355.		0
406	THE ROLE OF INTERFACE IN THE MECHANISM OF HYDROGEN ABSORPTION BY METAL-POLYMER COMPOSITES. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 151-156.	0.1	0