

Antonio Miotello

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402
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ext. papers

11,402
ext. citations

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L-index

#	Paper	IF	Citations
402	Hydrogen production by photocatalytic water-splitting using Cr- or Fe-doped TiO ₂ composite thin films photocatalyst. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 5337-5346	6.7	334
401	Critical assessment of thermal models for laser sputtering at high fluences. <i>Applied Physics Letters</i> , 1995 , 67, 3535-3537	3.4	325
400	Comments on explosive mechanisms of laser sputtering. <i>Applied Surface Science</i> , 1996 , 96-98, 205-215	6.7	237
399	New insights on the mechanism of palladium-catalyzed hydrolysis of sodium borohydride from ¹¹ B NMR measurements. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17024-33	3.4	232
398	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 ⁶		224
397	Promoting effect of transition metal-doped CoB alloy catalysts for hydrogen production by hydrolysis of alkaline NaBH ₄ solution. <i>Journal of Catalysis</i> , 2010 , 271, 315-324	7.3	216
396	Cobalt-Boride: An efficient and robust electrocatalyst for Hydrogen Evolution Reaction. <i>Journal of Power Sources</i> , 2015 , 279, 620-625	8.9	188
395	CoNiB nanocatalyst for efficient hydrogen evolution reaction in wide pH range. <i>Applied Catalysis B: Environmental</i> , 2016 , 192, 126-133	21.8	175
394	Hydrogen generation by hydrolysis of NaBH ₄ with efficient CoPB catalyst: A kinetic study. <i>Journal of Power Sources</i> , 2009 , 188, 411-420	8.9	165
393	Pd-C powder and thin film catalysts for hydrogen production by hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 287-292	6.7	151
392	Improved visible light photocatalytic activity of TiO ₂ co-doped with Vanadium and Nitrogen. <i>Applied Catalysis B: Environmental</i> , 2012 , 126, 47-54	21.8	148
391	Efficient catalytic properties of CoNiPB catalyst powders for hydrogen generation by hydrolysis of alkaline solution of NaBH ₄ . <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 2893-2900	6.7	147
390	Studies on catalytic behavior of CoNiB in hydrogen production by hydrolysis of NaBH ₄ . <i>Journal of Molecular Catalysis A</i> , 2009 , 298, 1-6		143
389	Systematic investigation on the interaction of bovine serum albumin with ZnO nanoparticles using fluorescence spectroscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 102, 257-64	6	142
388	Copper and Nitrogen co-doped TiO ₂ photocatalyst with enhanced optical absorption and catalytic activity. <i>Applied Catalysis B: Environmental</i> , 2015 , 168-169, 333-341	21.8	141
387	Laser-pulse sputtering of aluminum: Vaporization, boiling, superheating, and gas-dynamic effects. <i>Physical Review E</i> , 1994 , 50, 4716-4727	2.4	139
386	Metal Boride-Based Catalysts for Electrochemical Water-Splitting: A Review. <i>Advanced Functional Materials</i> , 2020 , 30, 1906481	15.6	138

385	Hydrogen generation by hydrolysis of alkaline NaBH ₄ solution with Cr-promoted CoB amorphous catalyst. <i>Applied Catalysis B: Environmental</i> , 2009 , 92, 68-74	21.8	136
384	Progress in CoB related catalyst for hydrogen production by hydrolysis of boron-hydrides: A review and the perspectives to substitute noble metals. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 1429-1464	6.7	132
383	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	21.8	111
382	Thin films of CoB prepared by pulsed laser deposition as efficient catalysts in hydrogen producing reactions. <i>Applied Catalysis A: General</i> , 2007 , 323, 18-24	5.1	109
381	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	2.6	106
380	Co ₃ O ₄ 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	21.8	103
379	Kinetic Features of the Platinum Catalyzed Hydrolysis of Sodium Borohydride from ¹¹ B NMR Measurements. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18744-18750	3.8	102
378	Physically and chemically synthesized TiO ₂ composite thin films for hydrogen production by photocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 6896-6903	6.7	102
377	Efficient photocatalytic degradation of organic water pollutants using V ⁵⁺ -codoped TiO ₂ thin films. <i>Applied Catalysis B: Environmental</i> , 2014 , 150-151, 74-81	21.8	101
376	Structured and Nanoparticle Assembled CoB 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	3.8	100
375	Comprehensive studies on the interaction of copper nanoparticles with bovine serum albumin using various spectroscopies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 113, 276-84	6	94
374	Efficient indium tin oxide/Cr-doped-TiO ₂ multilayer thin films for H ₂ production by photocatalytic water-splitting. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 9581-9590	6.7	87
373	On the mechanisms of target modification by ion beams and laser pulses. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 122, 374-400	1.2	86
372	Primary and secondary mechanisms in laser-pulse sputtering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 65, 187-199	1.2	85
371	Clustering of gold atoms in ion-implanted silica after thermal annealing in different atmospheres. <i>Physical Review B</i> , 2001 , 63,	3.3	82
370	Efficient Co-B-codoped TiO ₂ photocatalyst for degradation of organic water pollutant under visible light. <i>Applied Catalysis B: Environmental</i> , 2016 , 183, 242-253	21.8	81
369	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	6.7	79
368	Pulsed laser deposition of Co ₃ O ₄ 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	5.1	76

367	Two stages in the kinetics of gold cluster growth in ion-implanted silica during isothermal annealing in oxidizing atmosphere. <i>Journal of Applied Physics</i> , 2002 , 92, 4249-4254	2.5	69
366	A unique amorphous cobalt-phosphide-boride bifunctional electrocatalyst for enhanced alkaline water-splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118051	21.8	68
365	Contribution of vaporization and boiling to thermal-spike sputtering by ions or laser pulses. <i>Physical Review E</i> , 1999 , 60, 2616-25	2.4	64
364	Spectroscopic characterization of thermally treated carbon-rich Si _{1-x} C _x films. <i>Thin Solid Films</i> , 1993 , 223, 114-121	2.2	64
363	Highly photo-catalytically active hierarchical 3D porous/urchin nanostructured Co ₃ O ₄ coating synthesized by Pulsed Laser Deposition. <i>Applied Catalysis B: Environmental</i> , 2015 , 166-167, 475-484	21.8	62
362	Dehydrogenation of Ammonia Borane with transition metal-doped CoB alloy catalysts. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 2397-2406	6.7	62
361	Catalytic effect on hydrogen desorption in Nb-doped microcrystalline MgH ₂ . <i>Applied Physics Letters</i> , 2004 , 85, 5212-5214	3.4	62
360	Formation of an intermediate band in the energy gap of TiO ₂ by Cu ^{II} -codoping: First principles study and experimental evidence. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 125, 120-126	6.4	60
359	Microstructure, oxidation and H ₂ -permeation resistance of TiAlN films deposited by DC magnetron sputtering technique. <i>Surface and Coatings Technology</i> , 2004 , 180-181, 9-14	4.4	59
358	Efficient H ₂ production by water-splitting using indium ^{III} -oxide/V-doped TiO ₂ multilayer thin film photocatalyst. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 6519-6528	6.7	58
357	Revisiting the thermal-spike concept in ion-surface interactions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997 , 122, 458-469	1.2	58
356	Sievert-type apparatus for the study of hydrogen storage in solids. <i>Measurement Science and Technology</i> , 2004 , 15, 127-130	2	56
355	Dependence of photocatalysis on charge carrier separation in Ag-doped and decorated TiO ₂ nanocomposites. <i>Catalysis Science and Technology</i> , 2016 , 6, 8428-8440	5.5	55
354	Laser-pulse sputtering of atoms and molecules Part II. Recondensation effects. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1994 , 91, 682-691	1.2	55
353	Gas transport through nanocomposite membrane composed by polyethylene with dispersed graphite nanoplatelets. <i>Journal of Membrane Science</i> , 2014 , 463, 196-204	9.6	51
352	Co oxide nanostructures for electrocatalytic water-oxidation: effects of dimensionality and related properties. <i>Nanoscale</i> , 2018 , 10, 8806-8819	7.7	47
351	Co-B catalyst supported over mesoporous silica for hydrogen production by catalytic hydrolysis of Ammonia Borane: A study on influence of pore structure. <i>Applied Catalysis B: Environmental</i> , 2013 , 140-141, 125-132	21.8	46
350	Experimental and Theoretical Investigations on the Activity and Stability of Substitutional and Interstitial Boron in TiO ₂ Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18581-18590	3.8	45

349	Tungsten-doped TiO ₂ /reduced Graphene Oxide nano-composite photocatalyst for degradation of phenol: A system to reduce surface and bulk electron-hole recombination. <i>Journal of Environmental Management</i> , 2017 , 203, 364-374	7.9	44
348	Structural evolution of Fe-Al multilayer thin films for different annealing temperatures. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 811-821	1.8	44
347	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		44
346	Pulsed Laser Deposition of Co-nanoparticles embedded on B ₂ O ₃ -thin film: A very efficient catalyst produced in a single-step process. <i>Applied Catalysis B: Environmental</i> , 2011 , 103, 31-38	21.8	43
345	On the debris phenomenon with laser-sputtered polymers. <i>Applied Physics Letters</i> , 1992 , 60, 2980-2982	3.4	43
344	Study of 2D MXene Cr ₂ C material for hydrogen storage using density functional theory. <i>Applied Surface Science</i> , 2016 , 389, 88-95	6.7	42
343	Ion-beam mixing with chemical guidance IV. Thermodynamic effects without invoking thermal spikes. <i>Surface Science</i> , 1994 , 314, 275-288	1.8	42
342	Hydrogen kinetics in magnesium hydride: On different catalytic effects of niobium. <i>Applied Physics Letters</i> , 2006 , 89, 014101	3.4	41
341	Formation of a Noncrystalline Phase in Aluminum Irradiated with a Pulsed Ruby Laser. <i>Physical Review Letters</i> , 1980 , 44, 88-91	7.4	40
340	Formation of silver nanoclusters by excimer laser interaction in silver-exchanged soda-lime glass. <i>Applied Physics Letters</i> , 2001 , 79, 2456-2458	3.4	39
339	Chemical and compositional changes induced by N ⁺ implantation in amorphous SiC films. <i>Journal of Applied Physics</i> , 1993 , 74, 2013-2020	2.5	39
338	Novel geometrical effects observed in debris when polymers are laser sputtered. <i>Applied Physics Letters</i> , 1992 , 61, 2784-2786	3.4	39
337	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	21.8	37
336	Radiation effects in glasses. <i>Radiation Effects</i> , 1986 , 98, 39-54		37
335	Slow electrons impinging on dielectric solids. II. Implantation profiles, electron mobility, and recombination processes. <i>Physical Review B</i> , 1997 , 56, 2241-2247	3.3	36
334	Thermodynamic effects in depth profiling and ion-beam mixing without invoking thermal spikes. <i>Applied Physics Letters</i> , 1994 , 64, 2649-2651	3.4	36
333	Numerical analysis of field-assisted sodium migration in electron-irradiated glasses. <i>Journal of Physics C: Solid State Physics</i> , 1982 , 15, 5615-5621		36
332	Pulsed-laser deposition of nanostructured iron oxide catalysts for efficient water oxidation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6186-90	9.5	35

- 331 Mesoporous CoB nanocatalyst for efficient hydrogen production by hydrolysis of sodium borohydride. *International Journal of Hydrogen Energy*, **2013**, 38, 14685-14692 6.7 35
- 330 CoB nanoparticles supported on carbon film synthesized by pulsed laser deposition for hydrolysis of ammonia borane. *International Journal of Hydrogen Energy*, **2012**, 37, 2007-2013 6.7 35
- 329 Structural evolution of Pd-capped Mg thin films under H₂ absorption and desorption cycles. *International Journal of Hydrogen Energy*, **2009**, 34, 4817-4826 6.7 35
- 328 Polymer surface modification by ion implantation and reactive deposition of transparent films. *Surface and Coatings Technology*, **1998**, 103-104, 375-379 4.4 35
- 327 Palladium membranes prepared by r.f. magnetron sputtering for hydrogen purification. *Surface and Coatings Technology*, **2004**, 177-178, 73-79 4.4 35
- 326 Pulsed-laser deposition of carbon: from DLC to cluster-assembled films. *Thin Solid Films*, **2005**, 482, 2-8 2.2 35
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- 324 On the thermodynamic path enabling a room-temperature, laser-assisted graphite to nanodiamond transformation. *Scientific Reports*, **2016**, 6, 35244 4.9 34
- 323 Ruthenium nanoparticles supported over carbon thin film catalyst synthesized by pulsed laser deposition for hydrogen production from ammonia borane. *Applied Catalysis A: General*, **2015**, 495, 23-29^{5.1} 34
- 322 Ion beam induced enhanced adhesion of Au films deposited on polytetrafluoroethylene. *Thin Solid Films*, **2002**, 420-421, 565-570 2.2 33
- 321 Pulsed laser deposition of diamondlike carbon films on polycarbonate. *Journal of Applied Physics*, **2003**, 93, 859-865 2.5 33
- 320 Clustering of silver atoms in hydrogenated silverBodium exchanged glasses. *Applied Physics A: Materials Science and Processing*, **2000**, 70, 415-419 2.6 33
- 319 Composition changes in bombarded oxides and carbides: the distinction between ballistic, chemically guided, and chemically random behavior. *Nuclear Instruments & Methods in Physics Research B*, **1993**, 80-81, 1154-1163 1.2 33
- 318 Enhanced H₂ production from hydrolysis of sodium borohydride using Co₃O₄ nanoparticles assembled coatings prepared by pulsed laser deposition. *Applied Catalysis A: General*, **2016**, 515, 1-9 5.1 32
- 317 Enhanced hydrogen production by hydrolysis of NaBH₄ using Co-B nanoparticles supported on Carbon film catalyst synthesized by pulsed laser deposition. *Catalysis Today*, **2011**, 170, 20-26 5.3 32
- 316 An integrated apparatus for production and measurement of molecular hydrogen. *Measurement Science and Technology*, **2007**, 18, N21-N26 2 32
- 315 Deuterium storage in nanocrystalline magnesium thin films. *Journal of Applied Physics*, **2004**, 95, 1989-1995 32
- 314 Pulsed laser deposition apparatus for applied research. *Measurement Science and Technology*, **1999**, 10, 27-30 2 32

313	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	4.4	32
312	On the effect of Sn-doping in hematite anodes for oxygen evolution. <i>Electrochimica Acta</i> , 2016 , 214, 345-353	6.7	31
311	Pulsed laser deposition of diamond-like carbon films: reducing internal stress by thermal annealing. <i>Applied Surface Science</i> , 2003 , 208-209, 561-565	6.7	31
310	Stability, durability, and reusability studies on transition metal-doped CoB alloy catalysts for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13379-13391	6.7	30
309	Polymer rigidification in graphene based nanocomposites: Gas barrier effects and free volume reduction. <i>Polymer</i> , 2017 , 121, 17-25	3.9	29
308	CoBB 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	2.2	29
307	Effect of graphene oxide loading on TiO ₂ : Morphological, optical, interfacial charge dynamics-A combined experimental and theoretical study. <i>Carbon</i> , 2019 , 143, 51-62	10.4	29
306	Mechanical behaviour of nitrogen-implanted aluminium alloys. <i>Surface and Coatings Technology</i> , 1996 , 83, 284-289	4.4	28
305	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	2.3	28
304	Alkali migration in ion irradiated glasses. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1984 , 1, 511-515	1.2	28
303	Solar Concentration for Wastewaters Remediation: A Review of Materials and Technologies. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 118	2.6	27
302	Rapid hydrogenation of amorphous TiO ₂ to produce efficient H-doped anatase for photocatalytic water splitting. <i>Applied Catalysis A: General</i> , 2015 , 500, 69-73	5.1	26
301	Effect of annealing and nanostructuring on pulsed laser deposited WS ₂ for HER catalysis. <i>Applied Catalysis A: General</i> , 2016 , 510, 156-160	5.1	26
300	Nb clusters formation in Nb-doped magnesium hydride. <i>Applied Physics Letters</i> , 2005 , 87, 061904	3.4	26
299	Sputtering process during ion implantation in glasses: mathematical and physical analysis. <i>Journal of Physics C: Solid State Physics</i> , 1983 , 16, 221-228		26
298	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	2.6	25
297	Influence of annealing atmosphere on metal and metal alloy nanoclusters produced by ion implantation in silica. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 178, 176-179	1.2	25
296	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	6.7	24

295	Pulsed laser deposition of glass-like cluster assembled carbon films. <i>Carbon</i> , 2005 , 43, 2122-2127	10.4	24
294	Laser-irradiation-induced structural changes on graphite. <i>Physical Review B</i> , 1999 , 59, 13513-13516	3.3	24
293	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	6.7	24
292	Angular distribution and expansion of laser ablation plumes measured by fast intensified charge coupled device photographs. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 116, 257-261	1.2	24
291	Ion-beam mixing with chemical guidance. <i>Surface Science</i> , 1992 , 268, 340-350	1.8	24
290	Cooperative transport effects in electron-irradiated glasses. <i>Physical Review Letters</i> , 1985 , 54, 1675-1678	1.4	24
289	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		24
288	Structural and mechanical properties of ta-C films grown by pulsed laser deposition. <i>Europhysics Letters</i> , 2000 , 50, 501-506	1.6	23
287	Electrochemical and corrosion behaviour of laser modified aluminium surfaces. <i>Electrochimica Acta</i> , 1980 , 25, 1497-1499	6.7	23
286	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	21.8	22
285	CoMoBB Alloy with Enhanced Catalytic Properties for H ₂ Production by Hydrolysis of Ammonia Borane. <i>Topics in Catalysis</i> , 2012 , 55, 1032-1039	2.3	22
284	Ionic transport model for hydrogen permeation inducing silver nanocluster formation in silverBodium exchanged glasses. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 67, 527-529	2.6	22
283	On the application of Darken's analysis to ion-beam mixing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1991 , 59-60, 517-522	1.2	22
282	Defect diffusion in ion implanted glasses. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 65, 387-391	1.2	22
281	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	3.2	21
280	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	3.5	21
279	Catalytic properties on the hydrogen desorption process of metallic additives dispersed in the MgH ₂ matrix. <i>Journal of Alloys and Compounds</i> , 2007 , 446-447, 58-62	5.7	21
278	Structure and optical properties of TiN films prepared by dc sputtering and by ion beam assisted deposition. <i>Vacuum</i> , 1992 , 43, 459-462	3.7	21

277	Ion-beam mixing with chemical guidance II: Analysis for positive heats of mixing. <i>Surface and Coatings Technology</i> , 1992 , 51, 343-351	4.4	21
276	Laser irradiation effects on high dose implanted Cu and Pb in polycrystalline aluminum. <i>Radiation Effects</i> , 1980 , 46, 133-139		21
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274	Liquid nanodroplet formation through phase explosion mechanism in laser-irradiated metal targets. <i>Physical Review E</i> , 2015 , 92, 031301	2.4	20
273	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	6.7	20
272	XPS and UPS investigation of the diamond surface oxidation by UV irradiation. <i>Diamond and Related Materials</i> , 2009 , 18, 804-807	3.5	20
271	Structural evolution of nanocrystalline Pd/Mg bilayers under deuterium absorption and desorption cycles. <i>Thin Solid Films</i> , 2004 , 469-470, 350-355	2.2	20
270	Hydrogen permeation apparatus with thermal desorption spectroscopy capabilities. <i>Measurement Science and Technology</i> , 1995 , 6, 1605-1611	2	20
269	Metal-ceramic ion-beam mixing: a quest for general principles. <i>Surface and Coatings Technology</i> , 1996 , 83, 134-145	4.4	20
268	Hydrogen dimerization process: A probe for investigation of the alpha -SiO ₂ structure. <i>Physical Review B</i> , 1993 , 47, 14187-14192	3.3	20
267	Heavy ion irradiation of glasses: Enhanced diffusion and preferential sputtering of alkali elements. <i>Radiation Effects</i> , 1986 , 98, 101-108		20
266	Characteristics of glass composition modification during heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987 , 19-20, 948-953	1.2	20
265	Pulsed laser deposition of Co ₃ O ₄ nanocatalysts for dye degradation and CO oxidation. <i>Applied Surface Science</i> , 2014 , 302, 105-108	6.7	19
264	Simulation of phase explosion in the nanosecond laser ablation of aluminum. <i>Journal of Colloid and Interface Science</i> , 2017 , 489, 126-130	9.3	19
263	The role of oxygen in the one step amination process of nanocrystalline diamond surface. <i>Diamond and Related Materials</i> , 2011 , 20, 990-994	3.5	19
262	DIFFERENTIAL, TOTAL, AND TRANSPORT CROSS SECTIONS FOR ELASTIC SCATTERING OF LOW ENERGY POSITRONS BY NEUTRAL ATOMS (Z= 192, E= 500-2000 eV). <i>Atomic Data and Nuclear Data Tables</i> , 1998 , 69, 1-100	2	19
261	Structural evolution of Fe/Al multilayers submitted to thermal annealing. <i>Thin Solid Films</i> , 2003 , 433, 205-210	2.2	19
260	Exploring the hydrogen evolution capabilities of earth-abundant ternary metal borides for neutral and alkaline water-splitting. <i>Electrochimica Acta</i> , 2020 , 354, 136738	6.7	18

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258	Elastic constants of cubic boron nitride films. <i>Applied Physics Letters</i> , 2000 , 77, 2168-2170	3.4	18
257	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	2.2	18
256	Alkali-metal segregation at glass surfaces during electron irradiation. <i>Physical Review B</i> , 1991 , 43, 3831-3836	3.3	18
255	Field-assisted sodium migration in glasses during medium-energy proton irradiation. <i>Journal of Physics C: Solid State Physics</i> , 1982 , 15, 5623-5627		18
254	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	8.3	17
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252	Influence of post-implantation thermal and laser annealing on the stability of metal alloy nanoclusters in silica. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 175-177, 410-416	1.2	17
251	Spatial distribution of laser-ablated material by probing a plasma plume in three dimensions. <i>Applied Surface Science</i> , 1996 , 96-98, 102-111	6.7	17
250	Oxide growth at a Si surface. <i>Thin Solid Films</i> , 1994 , 241, 383-387	2.2	17
249	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		17
248	Improved H ₂ production rate by hydrolysis of Ammonia Borane using quaternary alloy catalysts. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 3313-3322	6.7	16
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246	Influence of nano-level molecular packing on the gas transport properties in amine-modified epoxy resins. <i>Polymer</i> , 2015 , 58, 130-138	3.9	16
245	Slow electrons impinging on dielectric solids. I. Basic aspects. <i>Physical Review B</i> , 1997 , 56, 2234-2240	3.3	16
244	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	1.2	16
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