Ruy Sanz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/778320/publications.pdf

Version: 2024-02-01

54	1,202	361045	395343
papers	citations	20	33
		h-index	g-index

55	55	55	1779
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic properties of densely packed arrays of Ni nanowires as a function of their diameter and lattice parameter. Journal of Applied Physics, 2004, 95, 6642-6644.	1.1	126
2	Photocatalytical and antibacterial activity of TiO2 nanoparticles obtained by laser ablation in water. Applied Catalysis B: Environmental, 2015, 165, 487-494.	10.8	109
3	Facile synthesis of Ni nanofoam for flexible and low-cost non-enzymatic glucose sensing. Sensors and Actuators B: Chemical, 2016, 224, 764-771.	4.0	75
4	Immobilization of nanomaterials in PMMA composites for photocatalytic removal of dyes, phenols and bacteria from water. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 321, 1-11.	2.0	71
5	Magnetic nanoparticles: synthesis, ordering and properties. Physica B: Condensed Matter, 2004, 354, 71-79.	1.3	62
6	An enhanced photocatalytic response of nanometric TiO₂ wrapping of Au nanoparticles for eco-friendly water applications. Nanoscale, 2014, 6, 11189-11195.	2.8	58
7	Black TiOx photocatalyst obtained by laser irradiation in water. Catalysis Communications, 2016, 84, 11-15.	1.6	42
8	Fabrication of Well-Ordered High-Aspect-Ratio Nanopore Arrays in TiO2 Single Crystals. Nano Letters, 2006, 6, 1065-1068.	4.5	40
9	TiO 2 coated CuO nanowire array: Ultrathin pâ€“n heterojunction to modulate cationic/anionic dye photo-degradation in water. Applied Surface Science, 2017, 416, 885-890.	3.1	39
10	Fe ion-implanted TiO2 thin film for efficient visible-light photocatalysis. Journal of Applied Physics, 2014, 116, .	1.1	35
11	C ion-implanted TiO2 thin film for photocatalytic applications. Journal of Applied Physics, 2015, 117, .	1.1	35
12	Well-ordered nanopore arrays in rutile TiO2single crystals by swift heavy ion-beam lithography. Nanotechnology, 2007, 18, 305303.	1.3	34
13	Rapid synthesis of photoactive hydrogenated TiO2 nanoplumes. Applied Catalysis B: Environmental, 2016, 183, 328-334.	10.8	31
14	PMMA/TiO2 nanotubes composites for photocatalytic removal of organic compounds and bacteria from water. Materials Science in Semiconductor Processing, 2016, 42, 58-61.	1.9	27
15	Heavy ion beam-based nano- and micro-structuring of TiO2 single crystals using self-assembled masks. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3113-3119.	0.6	25
16	Pattern-induced magnetic anisotropy in FePt thin films by ion irradiation. Physical Review B, 2011, 83, .	1.1	24
17	Photocatalytical activity of amorphous hydrogenated TiO2 obtained by pulsed laser ablation in liquid. Materials Science in Semiconductor Processing, 2016, 42, 28-31.	1.9	23
18	A magnetopolymeric nanocomposite: Co80Ni20nanoparticles in a PVC matrix. Nanotechnology, 2005, 16, S278-S281.	1.3	22

#	Article	IF	Citations
19	UV-black rutile TiO2: An antireflective photocatalytic nanostructure. Journal of Applied Physics, 2015, 117, 074903.	1.1	22
20	Magnetic behavior of NixFe(100â˜'x) (65â©½xâ©½100) nanowire arrays. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 191-194.	1.0	20
21	Magnetic behaviour of arrays of Ni nanowires by electrodeposition into self-aligned titania nanotubes. Journal of Magnetism and Magnetic Materials, 2005, 294, e69-e72.	1.0	20
22	Continuous and Localized Mn Implantation of ZnO. Nanoscale Research Letters, 2009, 4, 878-887.	3.1	17
23	Gamma Irradiation of Magnetoresistive Sensors for Planetary Exploration. Sensors, 2012, 12, 4447-4465.	2.1	17
24	Functional nanostructured titanium nitride films obtained by sputtering magnetron. Thin Solid Films, 2006, 495, 149-153.	0.8	16
25	Fabrication and Magnetic Functionalization of Cylindrical Porous Anodic Alumina. Small, 2007, 3, 434-437.	5.2	16
26	On the exciton model for ion-beam damage: The example of TiO2. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3122-3126.	0.6	16
27	Costâ€Effective, Flexible, Hydrophobic, and Tunable Structural Color Polymeric Bragg Reflector Metastructures. Advanced Optical Materials, 2018, 6, 1800408.	3.6	16
28	TiO2 nanowires on Ti thin film for water purification. Materials Science in Semiconductor Processing, 2016, 42, 24-27.	1.9	15
29	Surface patterning by heavy ion lithography using self-assembled colloidal masks. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 777-781.	0.6	13
30	Patterning of rutile TiO₂surface by ion beam lithography through full-solid masks. Nanotechnology, 2010, 21, 235301.	1.3	13
31	Temperature Dependent Magnetization and Remanent Magnetization in Pseudo-Binary ${m x}({m) Tj ETQq1 1 0.784314 rgBT /Overlock Titanomagnetites. IEEE Transactions on Magnetics, 2011, 47, 4128-4131.	1.2	13
32	Cylindrical Three-Dimensional Porous Anodic Alumina Networks. Coatings, 2016, 6, 59.	1.2	11
33	Core-level electronic properties of nanostructured NiO coatings. Applied Surface Science, 2007, 254, 278-280.	3.1	10
34	Nanotopography enhanced mobility determines mesenchymal stem cell distribution on micropatterned semiconductors bearing nanorough areas. Colloids and Surfaces B: Biointerfaces, 2015, 126, 146-153.	2.5	10
35	Radially distributed Ni and Co nanowire arrays. Journal of Applied Physics, 2007, 101, 114325.	1.1	9
36	FePt thin film irradiated with high energy ions. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1724-1730.	0.8	9

#	Article	IF	Citations
37	Photoactive layered nanocomposites obtained by direct transferring of anodic TiO 2 nanotubes to commodity thermoplastics. Applied Surface Science, 2017, 399, 451-462.	3.1	8
38	Thermal instability of implanted Mn ions in ZnO. Journal of Applied Physics, 2010, 107, 023507.	1.1	7
39	Calibration of QM-MOURA three-axis magnetometer and gradiometer. Geoscientific Instrumentation, Methods and Data Systems, 2015, 4, 1-18.	0.6	7
40	Implantation of anatase thin film with 100 keV 56Fe ions: Damage formation and magnetic behaviour. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2725-2730.	0.6	6
41	Continuous and Nanostructured TiO₂ Films Grown by dc Sputtering Magnetron. Journal of Nanoscience and Nanotechnology, 2012, 12, 9148-9155.	0.9	6
42	Mars MOURA magnetometer demonstration for high-resolution mapping on terrestrial analogues. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 127-142.	0.6	6
43	Selective binding of oligonucleotide on TiO 2 surfaces modified by swift heavy ion beam lithography. Nuclear Instruments & Methods in Physics Research B, 2014, 339, 67-74.	0.6	5
44	Single-crystal TiO₂ nanowires by seed assisted thermal oxidation of Ti foil: synthesis and photocatalytic properties. RSC Advances, 2016, 6, 55490-55498.	1.7	5
45	Effects on the structural and magnetic properties of amorphous ribbons of (Co0.94Fe0.06)72.5Si12.5B15 caused by 4MeV Cl2+ ion irradiation. Journal of Non-Crystalline Solids, 2007, 353, 879-882.	1.5	3
46	Preparation and Magnetic Properties of Cylindrical NiFe Films and Antidot Arrays. Journal of Nanoscience and Nanotechnology, 2010, 10, 6775-6778.	0.9	3
47	Optical Investigation of ZnO Nanowires. Acta Physica Polonica A, 2010, 117, 369-373.	0.2	3
48	Localized56Fe+ion implantation of TiO2using anodic porous alumina. Materials Research Society Symposia Proceedings, 2009, 1181, 23.	0.1	1
49	Swift Heavy Ion Beam-Based Nanopatterning Using Self-Assembled Masks. Materials Research Society Symposia Proceedings, 2007, 1020, 1.	0.1	0
50	(Co, Zn)O compound obtained from ZnTe vapor deposition onÂCo/Si substrates. Applied Physics A: Materials Science and Processing, 2010, 99, 657-664.	1.1	0
51	A hybrid approach to the surface biofunctionalization of nanostructured porous alumina. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 206-209.	0.8	0
52	Nanoporous Anodic Alumina as Template and Mask for Functional Nanostructures Fabrication. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	0
53	Gamma Irradiation of COTS magneto resistive sensors. , 2011, , .		0
54	El MagnetÃ³metro MOURA para la MisiÃ³n Mars MetNet Precursor y su potencial para la caracterizaciÃ³n magnÃ©tica de la superficie del Planeta. FÃsica De La Tierra, 2016, 28, .	0.1	0