

# Ruy Sanz

## List of Publications by Year in descending order

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54  
papers

1,202  
citations

361045

20  
h-index

395343

33  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1779  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cost-effective, Flexible, Hydrophobic, and Tunable Structural Color Polymeric Bragg Reflector Metastructures. <i>Advanced Optical Materials</i> , 2018, 6, 1800408.	3.6	16
2	TiO <sub>2</sub> coated CuO nanowire array: Ultrathin $\mu\text{m}$ heterojunction to modulate cationic/anionic dye photo-degradation in water. <i>Applied Surface Science</i> , 2017, 416, 885-890.	3.1	39
3	Photoactive layered nanocomposites obtained by direct transferring of anodic TiO <sub>2</sub> nanotubes to commodity thermoplastics. <i>Applied Surface Science</i> , 2017, 399, 451-462.	3.1	8
4	El Magnetómetro MOURA para la Misión Mars MetNet Precursor y su potencial para la caracterización magnética de la superficie del Planeta. <i>Física De La Tierra</i> , 2016, 28, .	0.1	0
5	Mars MOURA magnetometer demonstration for high-resolution mapping on terrestrial analogues. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 127-142.	0.6	6
6	Cylindrical Three-Dimensional Porous Anodic Alumina Networks. <i>Coatings</i> , 2016, 6, 59.	1.2	11
7	Black TiO <sub>x</sub> photocatalyst obtained by laser irradiation in water. <i>Catalysis Communications</i> , 2016, 84, 11-15.	1.6	42
8	Single-crystal TiO <sub>2</sub> nanowires by seed assisted thermal oxidation of Ti foil: synthesis and photocatalytic properties. <i>RSC Advances</i> , 2016, 6, 55490-55498.	1.7	5
9	Immobilization of nanomaterials in PMMA composites for photocatalytic removal of dyes, phenols and bacteria from water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 321, 1-11.	2.0	71
10	Facile synthesis of Ni nanofoam for flexible and low-cost non-enzymatic glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 764-771.	4.0	75
11	Rapid synthesis of photoactive hydrogenated TiO <sub>2</sub> nanoplumes. <i>Applied Catalysis B: Environmental</i> , 2016, 183, 328-334.	10.8	31
12	Photocatalytic activity of amorphous hydrogenated TiO <sub>2</sub> obtained by pulsed laser ablation in liquid. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 28-31.	1.9	23
13	PMMA/TiO <sub>2</sub> nanotubes composites for photocatalytic removal of organic compounds and bacteria from water. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 58-61.	1.9	27
14	TiO <sub>2</sub> nanowires on Ti thin film for water purification. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 24-27.	1.9	15
15	Calibration of QM-MOURA three-axis magnetometer and gradiometer. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2015, 4, 1-18.	0.6	7
16	Nanotopography enhanced mobility determines mesenchymal stem cell distribution on micropatterned semiconductors bearing nanorough areas. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 146-153.	2.5	10
17	UV-black rutile TiO <sub>2</sub> : An antireflective photocatalytic nanostructure. <i>Journal of Applied Physics</i> , 2015, 117, 074903.	1.1	22
18	C ion-implanted TiO <sub>2</sub> thin film for photocatalytic applications. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	35

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19	Photocatalytic and antibacterial activity of TiO <sub>2</sub> nanoparticles obtained by laser ablation in water. Applied Catalysis B: Environmental, 2015, 165, 487-494.	10.8	109
20	Fe ion-implanted TiO <sub>2</sub> thin film for efficient visible-light photocatalysis. Journal of Applied Physics, 2014, 116, .	1.1	35
21	An enhanced photocatalytic response of nanometric TiO <sub>2</sub> wrapping of Au nanoparticles for eco-friendly water applications. Nanoscale, 2014, 6, 11189-11195.	2.8	58
22	Selective binding of oligonucleotide on TiO <sub>2</sub> surfaces modified by swift heavy ion beam lithography. Nuclear Instruments & Methods in Physics Research B, 2014, 339, 67-74.	0.6	5
23	Gamma Irradiation of Magnetoresistive Sensors for Planetary Exploration. Sensors, 2012, 12, 4447-4465.	2.1	17
24	Continuous and Nanostructured TiO <sub>2</sub> Films Grown by dc Sputtering Magnetron. Journal of Nanoscience and Nanotechnology, 2012, 12, 9148-9155.	0.9	6
25	Gamma Irradiation of COTS magneto resistive sensors. , 2011, , .		0
26	Temperature Dependent Magnetization and Remanent Magnetization in Pseudo-Binary $\text{Ti}_{1-x}\text{Fe}_x\text{O}_2$ /Overlock 10 Tf 5 Titanomagnetites. IEEE Transactions on Magnetics, 2011, 47, 4128-4131.	1.2	13
27	Pattern-induced magnetic anisotropy in FePt thin films by ion irradiation. Physical Review B, 2011, 83, .	1.1	24
28	Preparation and Magnetic Properties of Cylindrical NiFe Films and Antidot Arrays. Journal of Nanoscience and Nanotechnology, 2010, 10, 6775-6778.	0.9	3
29	(Co, Zn)O compound obtained from ZnTe vapor deposition on $\text{Si}/\text{SiO}_2$ substrates. Applied Physics A: Materials Science and Processing, 2010, 99, 657-664.	1.1	0
30	On the exciton model for ion-beam damage: The example of TiO <sub>2</sub> . Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3122-3126.	0.6	16
31	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
32	Nanoporous Anodic Alumina as Template and Mask for Functional Nanostructures Fabrication. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	0
33	Thermal instability of implanted Mn ions in ZnO. Journal of Applied Physics, 2010, 107, 023507.	1.1	7
34	Patterning of rutile TiO <sub>2</sub> surface by ion beam lithography through full-solid masks. Nanotechnology, 2010, 21, 235301.	1.3	13
35	Optical Investigation of ZnO Nanowires. Acta Physica Polonica A, 2010, 117, 369-373.	0.2	3
36	Localized <sup>56</sup> Fe+ion implantation of TiO <sub>2</sub> using anodic porous alumina. Materials Research Society Symposia Proceedings, 2009, 1181, 23.	0.1	1

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37	Continuous and Localized Mn Implantation of ZnO. <i>Nanoscale Research Letters</i> , 2009, 4, 878-887.	3.1	17
38	Implantation of anatase thin film with 100 keV <sup>56</sup> Fe ions: Damage formation and magnetic behaviour. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2009, 267, 2725-2730.	0.6	6
39	Heavy ion beam-based nano- and micro-structuring of TiO <sub>2</sub> single crystals using self-assembled masks. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 3113-3119.	0.6	25
40	Swift Heavy Ion Beam-Based Nanopatterning Using Self-Assembled Masks. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1020, 1.	0.1	0
41	Effects on the structural and magnetic properties of amorphous ribbons of (Co <sub>0.94</sub> Fe <sub>0.06</sub> ) <sub>72.5</sub> Si <sub>12.5</sub> B <sub>15</sub> caused by 4MeV Cl <sup>2+</sup> ion irradiation. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 879-882.	1.5	3
42	Well-ordered nanopore arrays in rutile TiO <sub>2</sub> single crystals by swift heavy ion-beam lithography. <i>Nanotechnology</i> , 2007, 18, 305303.	1.3	34
43	Radially distributed Ni and Co nanowire arrays. <i>Journal of Applied Physics</i> , 2007, 101, 114325.	1.1	9
44	Surface patterning by heavy ion lithography using self-assembled colloidal masks. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 257, 777-781.	0.6	13
45	Fabrication and Magnetic Functionalization of Cylindrical Porous Anodic Alumina. <i>Small</i> , 2007, 3, 434-437.	5.2	16
46	FePt thin film irradiated with high energy ions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1724-1730.	0.8	9
47	Core-level electronic properties of nanostructured NiO coatings. <i>Applied Surface Science</i> , 2007, 254, 278-280.	3.1	10
48	Fabrication of Well-Ordered High-Aspect-Ratio Nanopore Arrays in TiO <sub>2</sub> Single Crystals. <i>Nano Letters</i> , 2006, 6, 1065-1068.	4.5	40
49	Functional nanostructured titanium nitride films obtained by sputtering magnetron. <i>Thin Solid Films</i> , 2006, 495, 149-153.	0.8	16
50	Magnetic behavior of Ni <sub>x</sub> Fe(100- $\hat{x}$ ) (65- $\hat{x}$ ) <sub>1/2</sub> nanowire arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 191-194.	1.0	20
51	Magnetic behaviour of arrays of Ni nanowires by electrodeposition into self-aligned titania nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 294, e69-e72.	1.0	20
52	A magnetopolymeric nanocomposite: Co <sub>80</sub> Ni <sub>20</sub> nanoparticles in a PVC matrix. <i>Nanotechnology</i> , 2005, 16, S278-S281.	1.3	22
53	Magnetic nanoparticles: synthesis, ordering and properties. <i>Physica B: Condensed Matter</i> , 2004, 354, 71-79.	1.3	62
54	Magnetic properties of densely packed arrays of Ni nanowires as a function of their diameter and lattice parameter. <i>Journal of Applied Physics</i> , 2004, 95, 6642-6644.	1.1	126