

# Jesus del Val Garcia

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,435  
citations

331670

21  
h-index

330143

37  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1669  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study on the CO2 laser cutting of carbon fiber reinforced plastic composite. Composites Part A: Applied Science and Manufacturing, 2012, 43, 1400-1409.	7.6	150
2	Laser surface modification of PEEK. Applied Surface Science, 2012, 258, 9437-9442.	6.1	126
3	Fiber laser cladding of nickel-based alloy on cast iron. Applied Surface Science, 2016, 374, 197-205.	6.1	111
4	Production of silver nanoparticles by laser ablation in open air. Applied Surface Science, 2015, 336, 108-111.	6.1	87
5	Laser texturing of stainless steel under different processing atmospheres: From superhydrophilic to superhydrophobic surfaces. Applied Surface Science, 2019, 475, 896-905.	6.1	82
6	Laser cladding of aluminium on AISI 304 stainless steel with high-power diode lasers. Surface and Coatings Technology, 2014, 253, 214-220.	4.8	61
7	Laser surface modification of ultra-high-molecular-weight polyethylene (UHMWPE) for biomedical applications. Applied Surface Science, 2014, 302, 236-242.	6.1	59
8	Laser-matter interactions in additive manufacturing of stainless steel SS316L and 13-93 bioactive glass revealed by in situ X-ray imaging. Additive Manufacturing, 2018, 24, 647-657.	3.0	57
9	Calcium phosphate grafts produced by rapid prototyping based on laser cladding. Journal of the European Ceramic Society, 2011, 31, 29-41.	5.7	54
10	Three-dimensional bioactive glass implants fabricated by rapid prototyping based on CO2 laser cladding. Acta Biomaterialia, 2011, 7, 3476-3487.	8.3	50
11	Laser cladding of Co-based superalloy coatings: Comparative study between Nd:YAG laser and fibre laser. Surface and Coatings Technology, 2010, 204, 1957-1961.	4.8	42
12	The Role of the Assist Gas Nature in Laser Cutting of Aluminum Alloys. Physics Procedia, 2011, 12, 548-554.	1.2	41
13	Laser-assisted production of spherical TiO <sub>2</sub> nanoparticles in water. Nanotechnology, 2011, 22, 195606.	2.6	38
14	Laser cladding of phosphor bronze. Surface and Coatings Technology, 2017, 313, 248-254.	4.8	37
15	Laser surface texturing of Titanium for bioengineering applications. Procedia Manufacturing, 2017, 13, 694-701.	1.9	35
16	Synthesis and deposition of silver nanoparticles on cp Ti by laser ablation in open air for antibacterial effect in dental implants. Materials Letters, 2018, 231, 126-129.	2.6	33
17	Texturing of polypropylene (PP) with nanosecond lasers. Applied Surface Science, 2016, 374, 379-386.	6.1	31
18	Fabrication and Deposition of Copper and Copper Oxide Nanoparticles by Laser Ablation in Open Air. Nanomaterials, 2020, 10, 300.	4.1	30

#	ARTICLE	IF	CITATIONS
19	High contrast laser marking of alumina. Applied Surface Science, 2015, 336, 118-128.	6.1	26
20	Synthesis of Titanium Oxide Nanoparticles by Ytterbium Fiber Laser Ablation. Physics Procedia, 2013, 41, 787-793.	1.2	25
21	CO2 laser cutting of natural granite. Optics and Laser Technology, 2016, 76, 19-28.	4.6	22
22	Removal of graffiti from quarry stone by high power diode laser. Optics and Lasers in Engineering, 2013, 51, 364-370.	3.8	20
23	Optimization of Laser Cladding for Al Coating Production. Physics Procedia, 2013, 41, 327-334.	1.2	20
24	On the fabrication of bioactive glass implants for bone regeneration by laser assisted rapid prototyping based on laser cladding. Ceramics International, 2016, 42, 2021-2035.	4.8	20
25	Functionally graded 3D structures produced by laser cladding. Procedia Manufacturing, 2017, 13, 169-176.	1.9	19
26	Laser cutting of Carbon Fiber Composite materials. Procedia Manufacturing, 2017, 13, 388-395.	1.9	18
27	Palladium nanoparticles produced by CW and pulsed laser ablation in water. Applied Surface Science, 2014, 302, 19-23.	6.1	17
28	Synthesis and Characterization of Pd Nanoparticles by Laser Ablation in Water Using Nanosecond Laser. Physics Procedia, 2016, 83, 36-45.	1.2	16
29	Laser cutting of aluminum alloy Al-2024-T3. Procedia Manufacturing, 2017, 13, 396-401.	1.9	14
30	RE-irradiation of silver nanoparticles obtained by laser ablation in water and assessment of their antibacterial effect. Applied Surface Science, 2019, 473, 548-554.	6.1	14
31	Production of TiO2 crystalline nanoparticles by laser ablation in ethanol. Applied Surface Science, 2012, 258, 9484-9486.	6.1	13
32	Three-dimensional laser-assisted processing of bioceramics. Physics Procedia, 2010, 5, 193-201.	1.2	10
33	Production of phosphor bronze coatings by laser cladding. Procedia Manufacturing, 2017, 13, 177-182.	1.9	10
34	Increasing the hydrophobicity degree of stonework by means of laser surface texturing: An application on Zimbabwe black granites. Applied Surface Science, 2017, 418, 463-471.	6.1	9
35	Laser cladding of glass-ceramic sealants for SOFC. Journal of the European Ceramic Society, 2015, 35, 4475-4484.	5.7	8
36	Continuous fiberizing by laser melting (Cofiblas): Production of highly flexible glass nanofibers with effectively unlimited length. Science Advances, 2020, 6, eaax7210.	10.3	8

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37	Laser Spinning: A New Technique for Nanofiber Production. Physics Procedia, 2014, 56, 365-370.	1.2	7
38	Laser surface texturing of granite. Procedia Manufacturing, 2017, 13, 687-693.	1.9	4
39	Downscaling of conventional laser cladding technique to microengineering. Physics Procedia, 2010, 5, 341-348.	1.2	3
40	Feasibility Study of Wide Band Laser Surface Treatment. Physics Procedia, 2013, 41, 356-361.	1.2	3
41	Processing of pure Ti by rapid prototyping based on laser cladding. , 2013, , .		2
42	Laser micro-cladding: A novel laser additive technique to produce hard micro-coatings. , 2010, , .		1
43	Laser surface texturing of bioactive materials. , 2012, , .		1
44	Everlasting Dark Printing on Alumina by Laser. Physics Procedia, 2016, 83, 233-239.	1.2	1
45	Laser-assisted production of electrical discharge machining (EDM) electrodes: A comparative study between rapid prototyping by selective laser sintering and laser surface cladding techniques. , 2008, , .		0
46	Effects of internal design geometry in de laval nozzles for off-axis assist gas injection on inert-gas laser cutting performance. , 2009, , .		0
47	Production of micro-scale coatings by novel laser micro-cladding technique. , 2010, , .		0
48	Production of aluminum foams by laser cladding. , 2011, , .		0
49	Laser-assisted manufacturing of bioactive glass implants for cranial defect restoration. , 2011, , .		0
50	Laser processing of phenolic wood substitutes. , 2013, , .		0
51	Laser removal of graffiti from Pink Morelia Quarry. , 2013, , .		0
52	Laser bioengineering of glass-titanium implants surface. , 2013, , .		0
53	Laser assisted production of calcium phosphate nanoparticles from marine origin. , 2013, , .		0
54	Optimization of laser drilling of slate tiles. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
55	Rapid prototyping of metallic structures based on laser micro-cladding. , 2014, , .		0
56	Rapid prototyping based on laser cladding of cp-Ti. , 2016, , .		0
57	â€œIndustrial applications of lasersâ€•at the University of Vigo as legacy of Professor Mariano PÃ©rez-Amor. Procedia CIRP, 2018, 74, 794-798.	1.9	0