

Rudimar Riva

List of Publications by Year in descending order

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51
papers

538
citations

687363

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713466

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52
docs citations

52
times ranked

475
citing authors

#	ARTICLE	IF	CITATIONS
1	Yb-fiber laser beam effects on the surface modification of Al-Fe aerospace alloy obtaining weld fillet structures, low fine porosity and corrosion resistance. <i>Surface and Coatings Technology</i> , 2012, 206, 2293-2301.	4.8	42
2	Experimental and theoretical investigations of a XeCl phototriggered laser. <i>Journal Physics D: Applied Physics</i> , 1995, 28, 856-872.	2.8	38
3	AFM study of the effects of laser surface remelting on the morphology of Al-Fe aerospace alloys. <i>Materials Characterization</i> , 2012, 74, 64-76.	4.4	37
4	One-sided laser beam welding of autogenous T-joints for 6013-T4 aluminium alloy. <i>Materials & Design</i> , 2015, 65, 726-736.	5.1	35
5	Laser remelting of Al-1.5 wt%Fe alloy surfaces: Numerical and experimental analyses. <i>Optics and Lasers in Engineering</i> , 2011, 49, 490-497.	3.8	33
6	Microstructural analyses of the nanoparticles obtained after laser irradiation of Ti and W in ethanol. <i>Applied Surface Science</i> , 2006, 252, 4420-4424.	6.1	31
7	Influence of laser surface treated on the characterization and corrosion behavior of Al-Fe aerospace alloys. <i>Applied Surface Science</i> , 2013, 276, 76-85.	6.1	26
8	Scattered light imaging method (SLIM) for characterization of arbitrary laser beam intensity profiles. <i>Applied Optics</i> , 2014, 53, 4555.	1.8	22
9	Mechanical and microstructural characterization of laser-welded joints of 6013-T4 aluminum alloy. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2015, 37, 133-140.	1.6	22
10	Laser surface remelting and hardening of an automotive shaft using a high-power fiber laser. <i>Materials Research</i> , 2007, 10, 461-467.	1.3	19
11	Laser Processing of Carbon Fiber Reinforced Polymer Composite for Optical Fiber Guidelines. <i>Physics Procedia</i> , 2013, 41, 572-580.	1.2	19
12	Influence of laser surface texturing on surface microstructure and mechanical properties of adhesive joined steel sheets. <i>Surface Engineering</i> , 2009, 25, 180-186.	2.2	17
13	Removal of Epulis Fissuratum Associated to Vestibuloplasty with Carbon Dioxide Laser. <i>Lasers in Medical Science</i> , 1999, 14, 203-206.	2.1	15
14	Comparing mechanical behaviour of aluminium welds produced by laser beam welding (LBW), friction stir welding (FSW), and riveting for aeronautical structures. <i>Welding International</i> , 2016, 30, 497-503.	0.7	14
15	Laser techniques applied to isotope separation of uranium. <i>Progress in Nuclear Energy</i> , 1998, 33, 217-264.	2.9	13
16	Breakdown delay time in phototriggered discharges. <i>Journal of Applied Physics</i> , 1992, 72, 879-887.	2.5	11
17	Ultrasonic inspection of AA6013 laser welded joints. <i>Materials Research</i> , 2011, 14, 417-422.	1.3	11
18	An assessment of microstructure and properties of laser clad coatings of ultrafine eutectic Ti-Fe-Nb-Sn composite for implants. <i>Surface and Coatings Technology</i> , 2017, 328, 161-171.	4.8	11

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19	Real-time measurement of laser beam quality factor (M2) by imaging transverse scattered light. , 2007, ,		9
20	Metallic Glass Formation Upon Rapid Solidification of Fe60Cr8Nb8B24 (at%) Alloy through LASER Cladding and Remelting. Materials Research, 2017, 20, 580-587.	1.3	9
21	Yb: fiber laser surface texturing of stainless steel substrate, with MCrAlY deposition and CO 2 laser treatment. Surface and Coatings Technology, 2014, 260, 251-259.	4.8	8
22	Ionization-attachment balance in Ne-HCl pulsed discharges. Journal Physics D: Applied Physics, 1993, 26, 1061-1066.	2.8	7
23	Multi-step photoionization spectroscopy in uranium between 5900 and 6060 Å... using a pulsed hollow-cathode lamp. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 3685-3691.	1.5	7
24	Ablation of molybdenum and niobium with a HyBRID copper laser. Applied Surface Science, 2002, 200, 68-75.	6.1	7
25	PVDF sensor in laser ablation experiments. Review of Scientific Instruments, 2004, 75, 5213-5215.	1.3	7
26	Characterization of a laser-soldered avionic component using lead-free paste. Optics and Laser Technology, 2009, 41, 159-164.	4.6	7
27	Non-contact sheet forming using lasers applied to a high strength aluminum alloy. Journal of Materials Research and Technology, 2016, 5, 275-281.	5.8	6
28	A pulsed dye laser with grazing incidence and folded cavity. Applied Physics B: Lasers and Optics, 1989, 49, 73-76.	2.2	5
29	High density self-broadening of neon 3s-3p atomic spectral lines studied by laser absorption spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 4065-4077.	1.5	5
30	A crack propagation study on T-joints of AA6013-T4 aluminum alloy welded by an Yb: fiber laser. International Journal of Advanced Manufacturing Technology, 2017, 92, 2831-2841.	3.0	5
31	Generation of an atomic beam by using laser ablation for isotope separation purposes. Journal of Aerospace Technology and Management, 2012, 4, 413-420.	0.3	5
32	Spectroscopic diagnostics of the onset of discharge instabilities in a XeCl phototriggered laser. Applied Physics B: Lasers and Optics, 1994, 58, 515-517.	2.2	4
33	High beam quality in a HyBRID copper laser operating with an unstable resonator made of a concave mirror and a plano-convex BK7 lens. Optics and Laser Technology, 2006, 38, 523-527.	4.6	4
34	Laser beam welding aerospace aluminum using fiber lasers. Proceedings of SPIE, 2008, , .	0.8	4
35	Production and characterization of laser cladding coating of Fe66Co7Nb4B23 (at.%) gas-atomized and ball-milled powders. Journal of Materials Research and Technology, 2021, 14, 2267-2280.	5.8	4
36	Laser Cladding of Fe-based Metallic Glass/MoS2 Self-lubricating Composites: Effect of Power and Scanning Speed. Materials Research, 2017, 20, 836-841.	1.3	3

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37	Influence of Si Coating on Interfacial Microstructure of Laser Joining of Titanium and Aluminium Alloys. <i>Materials Research</i> , 2018, 21, .	1.3	3
38	<title>Cutting and drilling of CVD diamond using a copper vapor laser</title>. , 1996, 2789, 345.		2
39	Maintaining efficiency of a Cu-HyBrID laser while changing laser parameters. , 2001, , .		2
40	Effects of Copper Vapor Laser Irradiation ($\lambda = 510.6$ nm) on the Enamel and Dentine of Human Teeth: An Ultra-structural Morphologic Study. <i>Photomedicine and Laser Surgery</i> , 2004, 22, 494-498.	2.0	2
41	Effects of Copper Vapor Laser Radiation on the Root Canal Wall of Human Teeth: A Scanning Electron Microscope Study. <i>Photomedicine and Laser Surgery</i> , 2005, 23, 317-323.	2.0	2
42	Optical beam deflection sensor: design and experiments. <i>Applied Optics</i> , 2017, 56, 8005.	1.8	2
43	<title>Modeling studies of XeCl phototriggered lasers</title>. , 1994, 2206, 254.		1
44	Cavity generation in dental enamel using a copper-HyBrID laser. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 1507-1513.	3.6	1
45	Map of surface hardening of the DP600 steel using the Yb: fiber laser, and force spectroscopy characterization. <i>Journal of Materials Research</i> , 2021, 36, 949-960.	2.6	1
46	Coated Steel Surfaces with WC by Lasers Action. <i>Materials Science Forum</i> , 0, 727-728, 345-348.	0.3	0
47	Laser ablation of copper followed by an accelerating potential: a TOF analysis. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
48	High Cycle Fatigue Behavior and Microstructural Characterization of 6013-T4 Aluminum Alloy Laser Welded Joints. <i>Advanced Materials Research</i> , 0, 891-892, 1767-1772.	0.3	0
49	Experimental and numerical analyses of laser remelted Sn \approx 0.7%Cu solder surfaces. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 3100-3107.	2.2	0
50	Comparaçãõ das propriedades mecânicas de juntas de alumÃnio obtidas por soldagem a laser (LBW), por friction stir welding (FSW) e rebitadas para aplicaçãõ em estruturas aeronÃuticas. <i>Soldagem E Inspecao</i> , 2014, 19, 145-151.	0.6	0
51	AVALIAÇÃO SUPERFICIAL E MICROESTRUTURAL DE CORDÃES DE SOLDA DE NIÃBIO TRATADOS TERMICAMENTE VIA IMPLANTAÇÃO IÃNICA POR IMERSÃO EM PLASMA. , 0, , .		0