

Jacek Hoffman

List of Publications by Year in descending order

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49
papers

806
citations

516215

16
h-index

500791

28
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49
all docs

49
docs citations

49
times ranked

815
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of carbon nanotubes by the laser ablation method: Effect of laser wavelength. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1860-1867.	0.7	153
2	Laser induced aerosol formation in CS ₂ vapour. <i>Chemical Physics Letters</i> , 1979, 68, 40-43.	1.2	58
3	Luminescent Carbon Dots Synthesized by the Laser Ablation of Graphite in Polyethylenimine and Ethylenediamine. <i>Materials</i> , 2021, 14, 729.	1.3	58
4	The effect of laser wavelength on the ablation rate of carbon. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 395-400.	1.1	53
5	Time-dependent spectroscopy of plasma plume under laser welding conditions. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 1792-1799.	1.3	47
6	WB ₂ to WB ₃ phase change during reactive spark plasma sintering and pulsed laser ablation/deposition processes. <i>Ceramics International</i> , 2015, 41, 8273-8281.	2.3	36
7	Fabrication and characterization of superhard tungsten boride layers deposited by radio frequency magnetron sputtering. <i>Ceramics International</i> , 2016, 42, 12221-12230.	2.3	32
8	Oscillatory evolution of laser-induced aerosol in CS ₂ vapour. <i>Chemical Physics Letters</i> , 1980, 75, 388-391.	1.2	30
9	Modelling of plasma plume induced during laser welding. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 685-692.	1.3	29
10	Plasma plume oscillations during welding of thin metal sheets with a CW CO ₂ laser. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 189-199.	1.3	29
11	The effect of laser wavelength on heating of ablated carbon plume. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 815-819.	1.1	25
12	The effect of recoil pressure in the ablation of polycrystalline graphite by a nanosecond laser pulse. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 235201.	1.3	21
13	Plasma plume induced during ArF laser ablation of hydroxyapatite. <i>Applied Surface Science</i> , 2008, 255, 2230-2236.	3.1	20
14	Laser induced convection instability. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1981, 87, 133-136.	0.9	18
15	The effect of laser wavelength on laser-induced carbon plasma. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	17
16	The effect of process parameters on rhenium diboride films deposited by PLD. <i>Surface and Coatings Technology</i> , 2015, 277, 15-22.	2.2	17
17	Acceleration and distribution of laser-ablated carbon ions near the target surface. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 025201.	1.3	15
18	Analysis of acoustic and optical signals used as a basis for controlling laser welding processes. <i>Welding International</i> , 2002, 16, 18-25.	0.3	11

#	ARTICLE	IF	CITATIONS
19	Emission coefficients of low temperature thermal iron plasma. European Physical Journal D, 2004, 54, C677-C682.	0.4	11
20	Plasma generated during underwater pulsed laser processing. Applied Surface Science, 2017, 417, 130-135.	3.1	11
21	Evaluation of residual stress and adhesion of Ti and TiN PVD films by laser spallation technique. Optics and Laser Technology, 2018, 104, 140-147.	2.2	11
22	Effective laser-induced removal of co-deposited layers from plasma-facing components in a tokamak. European Physical Journal D, 2006, 56, B67-B72.	0.4	10
23	Plasma plume induced during laser ablation of graphite. Applied Physics A: Materials Science and Processing, 2008, 92, 921-926.	1.1	9
24	The absorption and radiation of a tungsten plasma plume during nanosecond laser ablation. Physics of Plasmas, 2015, 22, 103303.	0.7	9
25	Laser ablation in an ambient gas: Modelling and experiment. Journal of Applied Physics, 2018, 123, .	1.1	9
26	Plasma Plume Induced During Laser Welding of Magnesium Alloys. AIP Conference Proceedings, 2006, , .	0.3	7
27	Tungsten borides layers deposited by a nanosecond laser pulse. Surface and Coatings Technology, 2018, 335, 181-187.	2.2	7
28	Spectroscopic study of a supersonic jet of laser-heated argon plasma. Journal Physics D: Applied Physics, 1997, 30, 998-1006.	1.3	6
29	Corrosion behavior of laser-remelted aluminum alloy. , 2003, , .		6
30	Thermodynamic Characterization of High-Speed and High-Enthalpy Plasma Flows. The Open Plasma Physics Journal, 2014, 7, 155-172.	0.7	6
31	Oscillations of keyhole pressure and plasma radiation during cw CO ₂ laser welding. , 2000, , .		5
32	Study of laser-induced removal of co-deposits from tokamak plasma-facing components using ion diagnostics and optical spectroscopy. Radiation Effects and Defects in Solids, 2010, 165, 434-440.	0.4	5
33	Laser beam-plasma plume interaction during laser welding. , 2003, , .		4
34	Structural and mechanical properties of CO ₂ laser welded joints in difficult-to-weld metals. Welding International, 1996, 10, 257-261.	0.3	3
35	Creation of TiN paths on titanium alloy OT4-1 by the use of a laser beam. Journal of Materials Science, 1998, 33, 1385-1388.	1.7	3
36	Effect of reactive atmosphere on pulsed laser deposition of hydroxyapatite thin films. Journal of Physics: Conference Series, 2007, 59, 720-723.	0.3	3

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37	Laser-deposited Cu/Al ₂ O ₃ nanocomposite: experiment and modeling. Applied Physics A: Materials Science and Processing, 2014, 117, 169-173.	1.1	3
38	Temporal Evolution of Pressure Generated by a Nanosecond Laser Pulse Used for Assessment of Adhesive Strength of the Tungsten-Zirconium-Borides Coatings. Materials, 2021, 14, 7111.	1.3	3
39	Modeling of Plasma Plume Induced During Laser Welding. AIP Conference Proceedings, 2006, , .	0.3	1
40	Modelling of time dependent plasma plume induced during laser welding. European Physical Journal D, 2006, 56, B938-B943.	0.4	1
41	Plasmatron for simulation of re-entry conditions in a planetary atmosphere. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1607-1615.	1.8	1
42	A plasma jet produced in a segmented plasmatron: modelling and experiment. Physica Scripta, 2014, T161, 014072.	1.2	1
43	Electrical and plasma flow characteristics of a segmented plasmatron operating with mixture of gases. Plasma Sources Science and Technology, 2015, 24, 055007.	1.3	1
44	Improved Laser Ablation Method for the Production of Luminescent Carbon Particles in Liquids. Materials, 2021, 14, 2365.	1.3	1
45	Properties of magnesium alloy joints welded by a CO ₂ laser beam. Welding International, 2005, 19, 205-208.	0.3	0
46	Plasma Generated During Pulsed Laser Deposition of Hydroxyapatite. AIP Conference Proceedings, 2006, , .	0.3	0
47	PLASMA OSCILLATIONS DURING cw CO ₂ LASER WELDING. High Temperature Material Processes, 2001, 5, 4.	0.2	0
48	TITANIUM PLASMA UNDER LASER WELDING CONDITIONS. High Temperature Material Processes, 2002, 6, 10.	0.2	0
49	The best conditions for the nucleation of carbon nanoparticles in laser-induced plasma. Nanotechnology, 0, , .	1.3	0