

Philip Crouse

List of Publications by Year in descending order

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35
papers

966
citations

516710

16
h-index

477307

29
g-index

36
all docs

36
docs citations

36
times ranked

1006
citing authors

#	ARTICLE	IF	CITATIONS
1	Polytetrafluoroethylene: Synthesis and Characterization of the Original Extreme Polymer. <i>Chemical Reviews</i> , 2019, 119, 1763-1805.	47.7	189
2	Laser surface micro-texturing of Ti-6Al-4V substrates for improved cell integration. <i>Applied Surface Science</i> , 2007, 253, 7738-7743.	6.1	121
3	Generation and characterization of NiO nanoparticles by continuous wave fiber laser ablation in liquid. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1421-1427.	1.9	70
4	An analytical model for laser drilling incorporating effects of exothermic reaction, pulse width and hole geometry. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 1358-1374.	4.8	64
5	Striation-free Laser Cutting of Mild Steel Sheets. <i>CIRP Annals - Manufacturing Technology</i> , 2007, 56, 193-196.	3.6	55
6	Comparison of MOF-5- and Cr-MOF-derived carbons for hydrogen storage application. <i>Research on Chemical Intermediates</i> , 2016, 42, 4951-4961.	2.7	50
7	Elimination of striation in laser cutting of mild steel. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 6908-6916.	2.8	45
8	Investigation into CO2 laser cleaning of titanium alloys for gas-turbine component manufacture. <i>Applied Surface Science</i> , 2006, 252, 4798-4802.	6.1	37
9	A statistical analysis of striation formation during laser cutting of ceramics. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 36, 699-706.	3.0	34
10	Generation of titanium-oxide nanoparticles in liquid using a high-power, high-brightness continuous-wave fiber laser. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 91, 365-368.	2.3	33
11	Optical near-field distribution in an asymmetrically illuminated tip-sample system for laser/STM nanopatterning. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 89, 363-368.	2.3	32
12	Laser-assisted generation of self-assembled microstructures on stainless steel. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 117-122.	2.3	28
13	Comparative interaction mechanisms for different laser systems with selected materials on titanium alloys. <i>Applied Surface Science</i> , 2007, 253, 7992-7997.	6.1	24
14	Comparison of mechanisms and effects of Nd:YAG and CO2 laser cleaning of titanium alloys. <i>Applied Surface Science</i> , 2006, 252, 4792-4797.	6.1	23
15	Monitoring laser cleaning of titanium alloys by probe beam reflection and emission spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 123-127.	2.3	21
16	Characterisation and corrosion performance of laser-melted 3CR12 steel. <i>Applied Surface Science</i> , 2005, 247, 362-368.	6.1	17
17	Combined laser/sol-gel synthesis of calcium silicate coating on Ti-6Al-4V substrates for improved cell integration. <i>Applied Surface Science</i> , 2007, 253, 7998-8002.	6.1	17
18	The influence of inorganic materials on the pyrolysis of polytetrafluoroethylene. Part 2: The common oxides of Al, Ga, In, Zn, Cu, Ni, Co, Fe, Mn, Cr, V, Zr and La. <i>Journal of Fluorine Chemistry</i> , 2014, 168, 9-15.	1.7	15

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19	Combined laser/sol-gel synthesis of Si/O/C coatings on mild steel. <i>Surface and Coatings Technology</i> , 2006, 200, 6395-6399.	4.8	14
20	Conventional and RAFT Copolymerization of Tetrafluoroethylene with Isobutyl Vinyl Ether. <i>Macromolecules</i> , 2018, 51, 6724-6739.	4.8	13
21	Synthesis of TiN thin films by a new combined laser/sol-gel processing technique. <i>Applied Surface Science</i> , 2007, 253, 7903-7907.	6.1	11
22	Radical copolymerisation of chlorotrifluoroethylene with isobutyl vinyl ether initiated by the persistent perfluoro-3-ethyl-2,4-dimethyl-3-pentyl radical. <i>RSC Advances</i> , 2015, 5, 41544-41554.	3.6	10
23	The effect of deposition parameters on the compressive stress in a-C:H thin films. <i>Diamond and Related Materials</i> , 1993, 2, 885-889.	3.9	8
24	Synthesis and coating of micro-metal-matrix composite by combined laser sol-gel processing. <i>Surface and Coatings Technology</i> , 2007, 201, 5809-5814.	4.8	7
25	Plasma-Assisted Treatment of Municipal Solid Waste: A Scenario Analysis. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 763-782.	2.4	7
26	Laser/sol-gel synthesis: a novel method for depositing nanostructured TiN coatings in non-vacuum conditions. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 85, 79-82.	2.3	6
27	Fluorination of neodymium carbonate monohydrate with anhydrous hydrogen fluoride in a Carberry spinning-basket reactor. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1400-1409.	3.7	3
28	Materials behaviour and process characteristics in the removal of industrial cement tile grout using a 1.5 kW diode laser. <i>Thin Solid Films</i> , 2004, 453-454, 52-58.	1.8	2
29	Efficient generation of titanium oxide nanomaterials using a continuous wave high-power fibre laser. , 2007, , .		2
30	Optimisation of TiN thin film synthesis by a novel combined laser/sol-gel processing technique. , 2006, , .		1
31	Extraction and Separation of Zirconium Using 1-Octanol. <i>Mining, Metallurgy and Exploration</i> , 2020, 37, 93-100.	0.8	1
32	Fluoropolymer-based architectural textiles: production, processing, and characterization. , 2020, , 337-399.		1
33	Carbon monoxide fluorination using alumina-supported cobalt trifluoride: a proof of concept. <i>Journal of Fluorine Chemistry</i> , 2022, 254, 109933.	1.7	1
34	Surface modification by chemical-slurry laser coating. , 2005, , .		0
35	Batch studies on adsorptive removal of Co ions by CoTreat® in acidic media. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 605-611.	1.5	0