

Pavel Šťáhal

List of Publications by Year in descending order

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23
papers

274
citations

840776

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docs citations

23
times ranked

344
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of Plasma Pretreatment and Cross-Linking Degree on the Physical and Antimicrobial Properties of Nisin-Coated PVA Films. <i>Materials</i> , 2018, 11, 1451.	2.9	31
2	Adhesion of <i>Rhodococcus</i> sp. S3E2 and <i>Rhodococcus</i> sp. S3E3 to plasma prepared Teflon-like and organosilicon surfaces. <i>Journal of Materials Processing Technology</i> , 2009, 209, 2871-2875.	6.3	25
3	Plasma cleaning and activation of silicon surface in Dielectric Coplanar Surface Barrier Discharge. <i>Surface and Coatings Technology</i> , 2013, 236, 326-331.	4.8	22
4	Room temperature plasma oxidation in DCSBD: A new method for preparation of silicon dioxide films at atmospheric pressure. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 651-655.	3.5	21
5	Diffuse Coplanar Surface Barrier Discharge in Artificial Air: Statistical Behaviour of Microdischarges. <i>Open Chemistry</i> , 2015, 13, .	1.9	21
6	Modification of (111) and (100) silicon in atmospheric pressure plasma. <i>Applied Surface Science</i> , 2014, 312, 203-207.	6.1	19
7	Removal of <i>Microcystis aeruginosa</i> through the Combined Effect of Plasma Discharge and Hydrodynamic Cavitation. <i>Water (Switzerland)</i> , 2020, 12, 8.	2.7	19
8	Correlation of thermal stability of the mechanical and optical properties of diamond-like carbon films. <i>Diamond and Related Materials</i> , 2007, 16, 1331-1335.	3.9	17
9	The influence of electrode gap width on plasma properties of diffuse coplanar surface barrier discharge in nitrogen. <i>European Physical Journal D</i> , 2009, 54, 259-264.	1.3	14
10	Mass Production of Plasma Activated Water: Case Studies of Its Biocidal Effect on Algae and Cyanobacteria. <i>Water (Switzerland)</i> , 2020, 12, 3167.	2.7	14
11	Atmospheric Pressure Plasma Polymerized Oxazoline-Based Thin Films – Antibacterial Properties and Cytocompatibility Performance. <i>Polymers</i> , 2019, 11, 2069.	4.5	13
12	Defect states in the intrinsic layer of amorphous silicon solar cells studied by the constant-photocurrent method. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 1049-1061.	0.6	11
13	Atmospheric Pressure Plasma Polymerized 2-Ethyl-2-oxazoline Based Thin Films for Biomedical Purposes. <i>Polymers</i> , 2020, 12, 2679.	4.5	11
14	Experimental aspects of the constant photocurrent method applied to a-Si: H. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995, 71, 871-880.	0.6	7
15	Nonthermal plasma modification of polypropylene fibres for cementitious composites. <i>Open Chemistry</i> , 2015, 13, .	1.9	7
16	Removal of paper microbial contamination by atmospheric pressure DBD discharge. <i>European Physical Journal D</i> , 2009, 54, 233-237.	1.3	6
17	Effect of plasma sizing on basalt fibers adhesion with wood-working resins. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 873-885.	2.9	6
18	Properties of atmospheric pressure plasma oxidized layers on silicon wafers. <i>Open Chemistry</i> , 2014, 13, .	1.9	5

#	ARTICLE	IF	CITATIONS
19	High-speed low-cost surface treatments using a novel atmospheric-pressure plasma source. , 2015, , .		3
20	The Evaluation of Modifications to Glued Joints Utilizing Epoxy-Based Adhesive for Structural Timber Bonding. Advanced Materials Research, 2013, 688, 37-42.	0.3	1
21	Application of Polypropylene Fibre with Various Surface Treatments in Concrete. Advanced Materials Research, 0, 1054, 75-79.	0.3	1
22	Continuous plasma-chemical processing of fabrics at atmospheric pressure. , 2015, , .		0
23	Modification of Polymer Surfaces Using Atmospheric Pressure Barrier Discharges. Journal of Advanced Oxidation Technologies, 2006, 9, .	0.5	0