

Claus-Peter Klages

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

416
citations

687363

13
h-index

752698

20
g-index

28
all docs

28
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28
times ranked

450
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma Amination of Low-Density Polyethylene by DBD Afterglows at Atmospheric Pressure. <i>Plasma Processes and Polymers</i> , 2008, 5, 368-376.	3.0	44
2	Surface Technology with Cold Microplasmas. <i>Plasma Processes and Polymers</i> , 2007, 4, 208-218.	3.0	36
3	Some Remarks on Chemical Derivatization of Polymer Surfaces after Exposure to Nitrogen-Containing Plasmas. <i>Plasma Processes and Polymers</i> , 2013, 10, 307-312.	3.0	28
4	Improvement of the Adhesion of a Galvanic Metallization of Polymers by Surface Functionalization Using Dielectric Barrier Discharges at Atmospheric Pressure. <i>Plasma Processes and Polymers</i> , 2009, 6, S258.	3.0	26
5	Critical remarks on chemical derivatization analysis of plasma-treated polymer surfaces and plasma polymers. <i>Plasma Processes and Polymers</i> , 2016, 13, 1213-1223.	3.0	26
6	Impact of hexamethyldisiloxane admixtures on the discharge characteristics of a dielectric barrier discharge in argon for thin film deposition. <i>Contributions To Plasma Physics</i> , 2018, 58, 337-352.	1.1	25
7	Plasma Printing and Related Techniques – Patterning of Surfaces Using Microplasmas at Atmospheric Pressure. <i>Plasma Processes and Polymers</i> , 2012, 9, 1086-1103.	3.0	22
8	Atmospheric-Pressure Plasma Amination of Polymer Surfaces. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 1167-1180.	2.6	21
9	Quantitative ATR FTIR Analysis of Chemically Derivatized Plasma-Modified Polymer Surfaces. <i>Plasma Processes and Polymers</i> , 2008, 5, 359-367.	3.0	20
10	Large-area atmospheric pressure dielectric barrier discharges in Ar/HMDSO mixtures: Experiments and fluid modelling. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900169.	3.0	17
11	Microplasma Stamps for Area-Selective Modification of Polymer Surfaces. <i>Plasma Processes and Polymers</i> , 2009, 6, S370.	3.0	16
12	Characterisation and Electrochemical Evaluation of Plasma Electrolytic Oxidation Coatings on Magnesium with Plasma Enhanced Chemical Vapour Deposition Post-Treatments. <i>Plasma Processes and Polymers</i> , 2016, 13, 266-278.	3.0	15
13	DBD-based plasma polymerization from monomer-argon mixtures: Analytical model of monomer reactions with excited argon species. <i>Plasma Processes and Polymers</i> , 2017, 14, 1700081.	3.0	15
14	Nitrogen Plasma Modification and Chemical Derivatization of Polyethylene Surfaces – An In Situ Study Using FTIR – ATR Spectroscopy. <i>Plasma Processes and Polymers</i> , 2013, 10, 948-958.	3.0	12
15	Controlling wettability in paper by atmospheric-pressure microplasma processes to be used in μ PAD fabrication. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	12
16	Evidence of ionic film deposition from single-filament dielectric barrier discharges in Ar/HMDSO mixtures. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000129.	3.0	11
17	IR- and NEXAFS-spectroscopic characterization of plasma-nitrogenated polyolefin surfaces. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700066.	3.0	10
18	Plasma Polymerization at Atmospheric Pressure with a New Type of DBD Reactor for Combinatorial Studies: Classification of Precursor Concentration Dependencies. <i>Plasma Processes and Polymers</i> , 2016, 13, 509-520.	3.0	9

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19	Modeling of Atmospheric-Pressure Dielectric Barrier Discharges in Argon with Small Admixtures of Tetramethylsilane. <i>Plasma Chemistry and Plasma Processing</i> , 2021, 41, 289-334.	2.4	9
20	Nucleophilic Derivatization of Polyethylene Surfaces Treated in Ambient-Pressure N ₂ /H ₂ DBD Post Discharges. <i>Plasma Chemistry and Plasma Processing</i> , 2014, 34, 661-669.	2.4	7
21	Plasma nitrogenation of polymer surfaces with a new type of combinatorial plasma printing reactor. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600137.	3.0	7
22	PMMA Surface Functionalization Using Atmospheric Pressure Plasma for Development of Plasmonically Active Polymer Optical Fiber Probes. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 1067-1083.	2.4	6
23	A chemical kinetic model of DBDs in Ar/H ₂ O mixtures. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000028.	3.0	5
24	Does the energy transfer from Ar(1s) atoms to N ₂ lead to dissociation?. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000070.	3.0	3
25	Argon/water DBD pretreatment and vapor phase silanization of silica: Comparison with wet chemical processes. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900265.	3.0	2