Claus-Peter Klages

List of Publications by Year
in descending order

25 papers	416 citations	687363 13 h-index	752698 20 g-index
28 all docs	28 docs citations	28 times ranked	450 citing authors

#	Article	IF	Citations
1	Modeling of Atmospheric-Pressure Dielectric Barrier Discharges in Argon with Small Admixtures of Tetramethylsilane. Plasma Chemistry and Plasma Processing, 2021, 41, 289-334.	2.4	9
2	Largeâ€area atmospheric pressure dielectric barrier discharges in Arâ€“HMDSO mixtures: Experiments and fluid modelling. Plasma Processes and Polymers, 2020, 17, 1900169.	3.0	17
3	Argonâ€“water DBD pretreatment and vaporâ€phase silanization of silica: Comparison with wetâ€chemical processes. Plasma Processes and Polymers, 2020, 17, 1900265.	3.0	2
4	Evidence of ionic film deposition from singleâ€filament dielectric barrier discharges in Arâ€“HMDSO mixtures. Plasma Processes and Polymers, 2020, 17, 2000129.	3.0	11
5	A chemicalâ€kinetic model of DBDs in Arâ€H 2 O mixtures. Plasma Processes and Polymers, 2020, 17, 2000028.	3.0	5
6	Does the energy transfer from Ar(1s) atoms to N 2 lead to dissociation?. Plasma Processes and Polymers, 2020, 17, 2000070.	3.0	3
7	Impact of hexamethyldisiloxane admixtures on the discharge characteristics of a dielectric barrier discharge in argon for thin film deposition. Contributions To Plasma Physics, 2018, 58, 337-352.	1.1	25
8	IRâ€and NEXAFSâ€spectroscopic characterization of plasmaâ€nitrogenated polyolefin surfaces. Plasma Processes and Polymers, 2018, 15, 1700066.	3.0	10
9	DBDâ€based plasma polymerization from monomerâ€argon mixtures: Analytical model of monomer reactions with excited argon species. Plasma Processes and Polymers, 2017, 14, 1700081.	3.0	15
10	Plasma nitrogenation of polymer surfaces with a new type of combinatorial plasmaâ€printing reactor. Plasma Processes and Polymers, 2017, 14, 1600137.	3.0	7
11	Plasma Polymerization at Atmospheric Pressure with a New Type of DBD Reactor for Combinatorial Studies: Classification of Precursor Concentration Dependencies. Plasma Processes and Polymers, 2016, 13, 509-520.	3.0	9
12	PMMA Surface Functionalization Using Atmospheric Pressure Plasma for Development of Plasmonically Active Polymer Optical Fiber Probes. Plasma Chemistry and Plasma Processing, 2016, 36, 1067-1083.	2.4	6
13	Critical remarks on chemical derivatization analysis of plasmaâ€treated polymer surfaces and plasma polymers. Plasma Processes and Polymers, 2016, 13, 1213-1223.	3.0	26
14	Controlling wettability in paper by atmospheric-pressure microplasma processes to be used in ÂµPAD fabrication. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	12
15	Characterisation and Electrochemical Evaluation of Plasma Electrolytic Oxidation Coatings on Magnesium with Plasma Enhanced Chemical Vapour Deposition Post-Treatments. Plasma Processes and Polymers, 2016, 13, 266-278.	3.0	15
16	Nucleophilic Derivatization of Polyethylene Surfaces Treated in Ambient-Pressure N2â€“H2 DBD Post Discharges. Plasma Chemistry and Plasma Processing, 2014, 34, 661-669.	2.4	7
17	Nitrogen Plasma Modification and Chemical Derivatization of Polyethylene Surfaces â€“ An In Situ Study Using <scp>FTIR</scp>â€<scp>ATR</scp> Spectroscopy. Plasma Processes and Polymers, 2013, 10, 948-958.	3.0	12
18	Some Remarks on Chemical Derivatization of Polymer Surfaces after Exposure to Nitrogenâ€Containing Plasmas. Plasma Processes and Polymers, 2013, 10, 307-312.	3.0	28

#	Article	IF	Citations
19	Plasma Printing and Related Techniques â€“ Patterning of Surfaces Using Microplasmas at Atmospheric Pressure. Plasma Processes and Polymers, 2012, 9, 1086-1103.	3.0	22
20	Atmospheric-Pressure Plasma Amination of Polymer Surfaces. Journal of Adhesion Science and Technology, 2010, 24, 1167-1180.	2.6	21
21	Improvement of the Adhesion of a Galvanic Metallization of Polymers by Surface Functionalization Using Dielectric Barrier Discharges at Atmospheric Pressure. Plasma Processes and Polymers, 2009, 6, S258.	3.0	26
22	Microplasma Stamps for Areaâ€Selective Modification of Polymer Surfaces. Plasma Processes and Polymers, 2009, 6, S370.	3.0	16
23	Quantitative ATR FTâ€IR Analysis of Chemically Derivatized Plasmaâ€Modified Polymer Surfaces. Plasma Processes and Polymers, 2008, 5, 359-367.	3.0	20
24	Plasma Amination of Lowâ€Density Polyethylene by DBD Afterglows at Atmospheric Pressure. Plasma Processes and Polymers, 2008, 5, 368-376.	3.0	44
25	Surface Technology with Cold Microplasmas. Plasma Processes and Polymers, 2007, 4, 208-218.	3.0	36