Marc BÃ¶ke

List of Publications by Year
in descending order

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55	1,133	448610	466096
papers	citations	19	32
		h-index	g-index

55	55	55	935
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effects of the driving frequencies on micro atmospheric pressure He/N₂ plasma jets driven by tailored voltage waveforms. Journal Physics D: Applied Physics, 2022, 55, 095204.	1.3	3
2	Dedicated setup to isolate plasma catalysis mechanisms. Journal Physics D: Applied Physics, 2021, 54, 134005.	1.3	5
3	Intra-cavity dynamics in a microplasma channel by side-on imaging. Plasma Sources Science and Technology, 2021, 30, 015014.	1.3	2
4	Oxygen Removal from a Hydrocarbon Containing Gas Stream by Plasma Catalysis. Plasma Chemistry and Plasma Processing, 2021, 41, 619-642.	1.1	4
5	Atomic oxygen generation in atmospheric pressure RF plasma jets driven by tailored voltage waveforms in mixtures of He and O₂. Journal Physics D: Applied Physics, 2021, 54, 125203.	1.3	18
6	Micro atmospheric pressure plasma jets excited in He/O₂ by voltage waveform tailoring: a study based on a numerical hybrid model and experiments. Plasma Sources Science and Technology, 2021, 30, 064001.	1.3	13
7	2D spatially resolved O atom density profiles in an atmospheric pressure plasma jet: from the active plasma volume to the effluent. Journal Physics D: Applied Physics, 2021, 54, 355204.	1.3	13
8	Zero-dimensional and pseudo-one-dimensional models of atmospheric-pressure plasma jets in binary and ternary mixtures of oxygen and nitrogen with helium background. Plasma Sources Science and Technology, 2021, 30, 105017.	1.3	13
9	Excitation and dissociation of CO₂ heavily diluted in noble gas atmospheric pressure plasma. Journal Physics D: Applied Physics, 2020, 53, 125205.	1.3	29
10	Modular constructed metal-grid arraysâ€"an alternative to silicon-based microplasma devices for catalytic applications. Plasma Sources Science and Technology, 2020, 29, 035028.	1.3	5
11	Helium metastable species generation in atmospheric pressure RF plasma jets driven by tailored voltage waveforms in mixtures of He and N₂. Journal Physics D: Applied Physics, 2020, 53, 185201.	1.3	45
12	Three-dimensional density distributions of NO in the effluent of the COST reference microplasma jet operated in He/N₂/O₂. Plasma Sources Science and Technology, 2020, 29, 125001.	1.3	17
13	Improved homogeneity of plasma and coating properties using a lance matrix gas distribution in MW-PECVD. Journal of Coatings Technology Research, 2019, 16, 573-583.	1.2	3
14	Deposition of SiO_x coatings by inductively coupled plasma: Effect of pulsed hexamethyldisiloxan flow. Plasma Processes and Polymers, 2018, 15, 1700186.	1.6	7
15	Influence of spokes on the ionized metal flux fraction in chromium high power impulse magnetron sputtering. Journal Physics D: Applied Physics, 2018, 51, 115201.	1.3	23
16	Non-equilibrium excitation of CO₂ in an atmospheric pressure helium plasma jet. Journal Physics D: Applied Physics, 2018, 51, 345202.	1.3	17
17	Transport mechanisms through PE-CVD coatings: influence of temperature, coating properties and defects on permeation of water vapour. Journal Physics D: Applied Physics, 2017, 50, 085203.	1.3	4
18	Influence of PE-CVD and PE-ALD on defect formation in permeation barrier films on PET and correlation to atomic oxygen fluence. Journal Physics D: Applied Physics, 2017, 50, 235201.	1.3	11

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19	Influence of residual stress on the adhesion and surface morphology of PECVD-coated polypropylene. Journal Physics D: Applied Physics, 2017, 50, 445301.	1.3	16
20	Measurement of Ar resonance and metastable level number densities in argon containing plasmas. Journal Physics D: Applied Physics, 2017, 50, 355202.	1.3	18
21	Temperature-dependent transport mechanisms through PE-CVD coatings: comparison of oxygen and water vapour. Journal Physics D: Applied Physics, 2017, 50, 395302.	1.3	3
22	Spoke rotation reversal in magnetron discharges of aluminium, chromium and titanium. Plasma Sources Science and Technology, 2016, 25, 035001.	1.3	51
23	Two dimensional spatial Argon metastable dynamics in HiPIMS discharges. Journal Physics D: Applied Physics, 2016, 49, 125203.	1.3	22
24	Film Stress of Amorphous Hydrogenated Carbon on Biaxially Oriented Polyethylene Terephthalate. Plasma Processes and Polymers, 2015, 12, 896-904.	1.6	6
25	The Mechanical Behavior of ALDâ€Polymer Hybrid Films Under Tensile Strain. Advanced Engineering Materials, 2015, 17, 1057-1067.	1.6	16
26	Helium metastable density evolution in a self-pulsingÎ¼-APPJ. Journal Physics D: Applied Physics, 2015, 48, 035203.	1.3	14
27	Spoke transitions in HiPIMS discharges. Plasma Sources Science and Technology, 2015, 24, 045005.	1.3	42
28	Argon metastable dynamics and lifetimes in a direct current microdischarge. Journal of Applied Physics, 2014, 116, .	1.1	20
29	The Role of Argon Metastables in an Inductively Coupled Plasma for Treatment of PET. Plasma Processes and Polymers, 2014, 11, 239-246.	1.6	4
30	Adhesion of Thin CVD Films on Pulsed Plasma Pre-Treated Polypropylene. Plasma Processes and Polymers, 2014, 11, 418-425.	1.6	15
31	The characteristic shape of emission profiles of plasma spokes in HiPIMS: the role of secondary electrons. Journal Physics D: Applied Physics, 2014, 47, 102003.	1.3	52
32	Electrochemical analysis of strain-induced crack formation of bilayer barrier plasma polymer films on metal and polymer substrates. Surface and Coatings Technology, 2014, 244, 173-179.	2.2	5
33	Monitoring particle growth in deposition plasmas. Plasma Sources Science and Technology, 2013, 22, 065014.	1.3	10
34	Instabilities in high-power impulse magnetron plasmas: from stochasticity to periodicity. Journal Physics D: Applied Physics, 2013, 46, 084007.	1.3	35
35	Time-resolved characterization of a filamentary argon discharge at atmospheric pressure in a capillary using emission and absorption spectroscopy. Journal Physics D: Applied Physics, 2013, 46, 464009.	1.3	19
36	Surface pre-treatment for barrier coatings on polyethylene terephthalate. Journal Physics D: Applied Physics, 2013, 46, 084012.	1.3	29

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37	Application of a mode-locked fiber laser for highly time resolved broadband absorption spectroscopy and laser-assisted breakdown on micro-plasmas. Journal Physics D: Applied Physics, 2012, 45, 245202.	1.3	9
38	Argon metastable dynamics in a filamentary jet micro-discharge at atmospheric pressure. Plasma Sources Science and Technology, 2012, 21, 034002.	1.3	41
39	High power impulse magnetron sputtering discharges: Instabilities and plasma self-organization. Applied Physics Letters, 2012, 100, .	1.5	115
40	Plasma self-organisation in High Power Impulse Magnetron Sputtering Discharges. IOP Conference Series: Materials Science and Engineering, 2012, 39, 012012.	0.3	1
41	Temporal evolution of the radial plasma emissivity profile in HIPIMS plasma discharges. Plasma Sources Science and Technology, 2012, 21, 035017.	1.3	28
42	Spatial dynamics of helium metastables in sheath or bulk dominated rf micro-plasma jets. Journal Physics D: Applied Physics, 2011, 44, 485204.	1.3	27
43	Axial light emission and Ar metastable densities in a parallel plate dc microdischarge in the steady state and transient regimes. Plasma Sources Science and Technology, 2011, 20, 065001.	1.3	15
44	Impurity intrusion in radio-frequency micro-plasma jets operated in ambient air. Journal Physics D: Applied Physics, 2011, 44, 325201.	1.3	15
45	Space resolved density measurements of argon and helium metastable atoms in radio-frequency generated He-Ar micro-plasmas. European Physical Journal D, 2010, 60, 489-495.	0.6	95
46	Plasma enhanced chemical vapor deposition of wear resistant gradual a-Si1â^'x:Cx:H coatings on nickel-titanium for biomedical applications. Journal of Applied Physics, 2010, 107, 053301.	1.1	2
47	Practical implementation of a two-hemisphere plasma absorption probe. Applied Physics Letters, 2009, 94, 011502.	1.5	20
48	Characterization of single diamondlike and polymerlike nanoparticles by midinfrared nanospectroscopy. Journal of Applied Physics, 2009, 105, 064908.	1.1	9
49	Optimised Plasma Absorption Probe for the Electron Density Determination in Reactive Plasmas. Plasma Processes and Polymers, 2009, 6, 76-85.	1.6	21
50	Modeling and simulation of the plasma absorption probe. Applied Physics Letters, 2007, 90, 121502.	1.5	48
51	Experimental Characterisation of the Plasma Absorption Probe. Plasma Processes and Polymers, 2007, 4, 605-611.	1.6	27
52	Terahertz time-domain spectroscopy as a new tool for the characterization of dust forming plasmas. Plasma Sources Science and Technology, 2006, 15, 72-77.	1.3	41
53	The European Summer School 'Low Temperature Plasma Physics: Basics and Applications' and 'Master Class: Biotechnical and Medical Applications'. Plasma Sources Science and Technology, 2006, 15, .	1.3	0
54	Axial variation of line emission from surface wave sustained discharges. Journal Physics D: Applied Physics, 1999, 32, 2426-2432.	1.3	8

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55	Electric ï¬eld strengths within a micro cavity plasma array measured by Stark shift and splitting of a Helium line pair. Plasma Sources Science and Technology, 0, , .	1.3	2