

Petr Lukeš

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,958
citations

218677

26
h-index

175258

52
g-index

77
all docs

77
docs citations

77
times ranked

3726
citing authors

#	ARTICLE	IF	CITATIONS
1	Outcomes After Human Papillomavirus Vaccination in Patients With Recurrent Respiratory Papillomatosis. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2022, 148, 654.	2.2	7
2	Treatment of phenylalanine and tyrosine in phosphate-buffered saline by plasma-supplied oxygen atoms: Chemical characterization and bactericidal effects. <i>Plasma Processes and Polymers</i> , 2022, 19, .	3.0	2
3	Proton pencil-beam scanning radiotherapy in the treatment of nasopharyngeal cancer: dosimetric parameters and 2-year results. <i>European Archives of Oto-Rhino-Laryngology</i> , 2021, 278, 763-769.	1.6	15
4	Leucine modifications by He/O ₂ plasma treatment in phosphate-buffered saline: bactericidal effects and chemical characterization. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 505206.	2.8	4
5	Gas-liquid interface influencing electronic structure of phenol based on molecular dynamics simulations and theoretical X-ray absorption spectroscopy. <i>Journal of Molecular Liquids</i> , 2021, 341, 117378.	4.9	3
6	Efficacy of Transnasal Flexible Videoendoscopy With Narrow Band Imaging for Follow-Up of Patients After Transoral Laser Cordectomy. <i>Lasers in Surgery and Medicine</i> , 2020, 52, 333-340.	2.1	7
7	Molecular dynamics simulations of singlet oxygen atoms reactions with water leading to hydrogen peroxide. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 275204.	2.8	11
8	Upscaling seasonal phenological course of leaf dorsiventral reflectance in radiative transfer model. <i>Remote Sensing of Environment</i> , 2020, 246, 111862.	11.0	12
9	Competitive reactions in Cl [•] solutions treated by plasma-supplied O atoms. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 505206.	2.8	14
10	Formation of reactive chlorine species in saline solution treated by non-equilibrium atmospheric pressure He/O ₂ plasma jet. <i>Plasma Sources Science and Technology</i> , 2019, 28, 035015.	3.1	42
11	Fluorescence measurements of peroxyxynitrite/peroxyxynitrous acid in cold air plasma treated aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8883-8896.	2.8	51
12	Velocity of initial propagation of positive nanosecond discharge in liquid water: dependence on high voltage amplitude and water conductivity. <i>Plasma Sources Science and Technology</i> , 2019, 28, 02LT02.	3.1	12
13	Aging of Al thin film extreme ultraviolet filters. , 2019, , .		1
14	Specificity of detection methods of nitrites and ozone in aqueous solutions activated by air plasma. <i>Plasma Processes and Polymers</i> , 2018, 15, 1800030.	3.0	65
15	Spectroscopic characteristics of H _± /O _± atomic lines generated by nanosecond pulsed corona-like discharge in deionized water. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 124001.	2.8	23
16	Spectral Properties of Coniferous Forests: A Review of In Situ and Laboratory Measurements. <i>Remote Sensing</i> , 2018, 10, 207.	4.0	86
17	Seasonality of albedo and FAPAR in a boreal forest. <i>Agricultural and Forest Meteorology</i> , 2017, 247, 331-342.	4.8	12
18	Fenton chemistry promoted by sub-microsecond pulsed corona plasmas for organic micropollutant degradation in water. <i>Electrochimica Acta</i> , 2017, 245, 539-548.	5.2	23

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19	Luminous phase of nanosecond discharge in deionized water: morphology, propagation velocity and optical emission. <i>Plasma Sources Science and Technology</i> , 2017, 26, 07LT01.	3.1	30
20	Special Electromagnetic Agents: From Cold Plasma to Pulsed Electromagnetic Radiation. , 2017, , 109-154.		2
21	Bulk-phase chemistry induced by nanosecond discharge plasma in water. , 2017, , .		1
22	Study of nanosecond pulsed corona-like discharge in deionized water by optical methods. , 2017, , .		0
23	Comparison of Reflectance Measurements Acquired with a Contact Probe and an Integration Sphere: Implications for the Spectral Properties of Vegetation at a Leaf Level. <i>Sensors</i> , 2016, 16, 1801.	3.8	22
24	Filamentation of diamond nanoparticles treated in underwater corona discharge. <i>RSC Advances</i> , 2016, 6, 2352-2360.	3.6	6
25	Atmospheric plasma generates oxygen atoms as oxidizing species in aqueous solutions. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 404002.	2.8	100
26	Multidecadal analysis of forest growth and albedo in boreal Finland. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 52, 296-305.	2.8	17
27	Characteristics of meter-scale surface electrical discharge propagating along water surface at atmospheric pressure. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 415202.	2.8	19
28	Surface Charge at the Oxide/Electrolyte Interface: Toward Optimization of Electrolyte Composition for Treatment of Aluminum and Magnesium by Plasma Electrolytic Oxidation. <i>Langmuir</i> , 2016, 32, 1405-1409.	3.5	42
29	Stress response of <i>Escherichia coli</i> induced by surface streamer discharge in humid air. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 075401.	2.8	11
30	Penetration of Gas Discharge Through the Gas-Liquid Interface Into the Bulk Volume of Conductive Aqueous Solution. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 3868-3875.	1.3	9
31	Spectral contribution of understory to forest reflectance in a boreal site: an analysis of EO-1 Hyperion data. <i>Remote Sensing of Environment</i> , 2015, 171, 98-104.	11.0	26
32	Potential of pulsed corona discharges generated in water for the degradation of persistent pharmaceutical residues. <i>Water Research</i> , 2015, 84, 127-135.	11.3	108
33	In vivo effects of focused shock waves on tumor tissue visualized by fluorescence staining techniques. <i>Bioelectrochemistry</i> , 2015, 103, 103-110.	4.6	13
34	Pressure Field Around Underwater Negative Streamers. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 1787-1792.	1.3	3
35	Estimation of Spruce Needle-Leaf Chlorophyll Content Based on DART and PARAS Canopy Reflectance Models. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 1534-1544.	4.9	17
36	Membrane damage and active but nonculturable state in liquid cultures of <i>Escherichia coli</i> treated with an atmospheric pressure plasma jet. <i>Bioelectrochemistry</i> , 2015, 103, 7-14.	4.6	138

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37	The Role of NBI HDTV Magnifying Endoscopy in the Prehistologic Diagnosis of Laryngeal Papillomatosis and Spinocellular Cancer. <i>BioMed Research International</i> , 2014, 2014, 1-7.	1.9	41
38	Minimally Invasive Video-Assisted versus Minimally Invasive Nonendoscopic Thyroidectomy. <i>BioMed Research International</i> , 2014, 2014, 1-7.	1.9	9
39	Degradation of selected pharmaceuticals with pulsed corona discharges generated in water. , 2014, , .		0
40	The Role of Narrow Band Imaging in the Detection of Recurrent Laryngeal and Hypopharyngeal Cancer after Curative Radiotherapy. <i>BioMed Research International</i> , 2014, 2014, 1-9.	1.9	50
41	Zenker's Diverticulum: Carbon Dioxide Laser Endoscopic Surgery. <i>BioMed Research International</i> , 2014, 2014, 1-5.	1.9	5
42	Measured and modelled albedos in Finnish boreal forest stands of different species, structure and understory. <i>Ecological Modelling</i> , 2014, 284, 10-18.	2.5	26
43	Presence of different genotypes of <i>Helicobacter pylori</i> in patients with chronic tonsillitis and sleep apnoea syndrome. <i>European Archives of Oto-Rhino-Laryngology</i> , 2014, 271, 607-613.	1.6	21
44	Detection of <i>Helicobacter pylori</i> in oropharyngeal lymphatic tissue with real-time PCR and assessment of its carcinogenic potential. <i>European Archives of Oto-Rhino-Laryngology</i> , 2014, 271, 399-405.	1.6	16
45	Thyroid carcinoma surgery in children and adolescents – 15 years experience surgery of pediatric thyroid carcinoma. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2014, 78, 990-994.	1.0	18
46	Geographical gradients in boreal forest albedo and structure in Finland. <i>Remote Sensing of Environment</i> , 2014, 152, 526-535.	11.0	28
47	Pilot study: Association between <i>Helicobacter pylori</i> in adenoid hyperplasia and reflux episodes detected by multiple intraluminal impedance in children. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2014, 78, 1243-1249.	1.0	20
48	A new approach for simulating forest albedo based on spectral invariants. <i>Remote Sensing of Environment</i> , 2013, 137, 12-16.	11.0	30
49	Formation of ROS and RNS in Water Electro-Sprayed through Transient Spark Discharge in Air and their Bactericidal Effects. <i>Plasma Processes and Polymers</i> , 2013, 10, 649-659.	3.0	284
50	Measurement methods and variability assessment of the Norway spruce total leaf area: implications for remote sensing. <i>Trees - Structure and Function</i> , 2013, 27, 111-121.	1.9	20
51	Relationship between forest density and albedo in the boreal zone. <i>Ecological Modelling</i> , 2013, 261-262, 74-79.	2.5	54
52	An assessment of ground reference methods for estimating LAI of boreal forests. <i>Forest Ecology and Management</i> , 2013, 292, 10-18.	3.2	29
53	Retrieval of spruce leaf chlorophyll content from airborne image data using continuum removal and radiative transfer. <i>Remote Sensing of Environment</i> , 2013, 131, 85-102.	11.0	144
54	Optical properties of leaves and needles for boreal tree species in Europe. <i>Remote Sensing Letters</i> , 2013, 4, 667-676.	1.4	114

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55	Generation of Focused Shock Waves in Water for Biomedical Applications. NATO Science for Peace and Security Series A: Chemistry and Biology, 2012, , 403-416.	0.5	3
56	Emission spectra of a pulse needle-to-plane corona-like discharge in conductive aqueous solutions. Plasma Sources Science and Technology, 2012, 21, 055031.	3.1	21
57	Comparison of Helicobacter Pylori Genotypes Obtained from the Oropharynx and Stomach of the Same Individuals – A Pilot Study. Prague Medical Report, 2012, 113, 231-239.	0.8	16
58	Discharge Filamentary Patterns Produced by Pulsed Corona Discharge at the Interface Between a Water Surface and Air. IEEE Transactions on Plasma Science, 2011, 39, 2644-2645.	1.3	31
59	Empirical test of the spectral invariants theory using imaging spectroscopy data from a coniferous forest. International Journal of Applied Earth Observation and Geoinformation, 2011, 13, 668-675.	2.8	7
60	Helicobacter pylori – Not Only a Gastric Pathogene?. , 2011, , .		2
61	The catalytic role of tungsten electrode material in the plasmachemical activity of a pulsed corona discharge in water. Plasma Sources Science and Technology, 2011, 20, 034011.	3.1	28
62	Electrical breakdown of water using porous ceramic-coated electrode. , 2011, , .		0
63	Ecological applications of physically based remote sensing methods. Scandinavian Journal of Forest Research, 2010, 25, 325-339.	1.4	43
64	Estimating canopy spectral invariants from ground reference and remote sensing data. , 2010, , .		0
65	The Role of Surface Chemistry at Ceramic/Electrolyte Interfaces in the Generation of Pulsed Corona Discharges in Water Using Porous Ceramic-Coated Rod Electrodes. Plasma Processes and Polymers, 2009, 6, 719-728.	3.0	30
66	Neck Dissection for Thyroid Cancer. , 2009, , 45-54.		0
67	Pulsed Electrical Discharge in Water Generated Using Porous-Ceramic-Coated Electrodes. IEEE Transactions on Plasma Science, 2008, 36, 1146-1147.	1.3	66
68	Ultraviolet radiation from the pulsed corona discharge in water. Plasma Sources Science and Technology, 2008, 17, 024012.	3.1	171
69	Helicobacter pylori isolated from patients with tonsillar cancer or tonsillitis chronica could be of different genotype compared to isolates from gastrointestinal tract. Folia Microbiologica, 2007, 52, 91-94.	2.3	14
70	Degradation of Substituted Phenols in a Hybrid Gas-Liquid Electrical Discharge Reactor. Industrial & Engineering Chemistry Research, 2005, 44, 2921-2930.	3.7	134
71	Plasmachemical oxidation processes in a hybrid gas-liquid electrical discharge reactor. Journal Physics D: Applied Physics, 2005, 38, 4074-4081.	2.8	177
72	Generation of ozone by pulsed corona discharge over water surface in hybrid gas-liquid electrical discharge reactor. Journal Physics D: Applied Physics, 2005, 38, 409-416.	2.8	179