

Jean-Michel Pouvesle

List of Publications by Year in descending order

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126
papers

3,974
citations

147801

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h-index

123424

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130
all docs

130
docs citations

130
times ranked

2565
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence, origin and impact of liquid flows in plasma medicine in vitro treatments with APPJs. Plasma Sources Science and Technology, 2021, 30, 015002.	3.1	13
2	Anti-Bacterial Action of Plasma Multi-Jets in the Context of Chronic Wound Healing. Applied Sciences (Switzerland), 2021, 11, 9598.	2.5	46
3	Plasma-liquid interactions. Journal of Applied Physics, 2021, 130, .	2.5	11
4	The emerging potential of cold atmospheric plasma in skin biology. Free Radical Biology and Medicine, 2020, 161, 290-304.	2.9	96
5	New insights on molecular internalization and drug delivery following plasma jet exposures. International Journal of Pharmaceutics, 2020, 589, 119874.	5.2	47
6	Cold atmospheric single plasma jet for RONS delivery on large biological surfaces. Plasma Sources Science and Technology, 2020, 29, 105002.	3.1	38
7	Cell Electroporation Enhancement by Non-Thermal-Plasma-Treated PBS. Cancers, 2020, 12, 219.	3.7	44
8	Plasma and Aerosols: Challenges, Opportunities and Perspectives. Applied Sciences (Switzerland), 2019, 9, 3861.	2.5	43
9	Ionization wave propagation in an atmospheric pressure plasma multi-jet. Plasma Sources Science and Technology, 2019, 28, 125009.	3.1	26
10	Cold atmospheric plasma-induced acidification of tissue surface: visualization and quantification using agarose gel models. Journal Physics D: Applied Physics, 2019, 52, 24LT01.	2.8	22
11	Guest Editorial The Third Special Issue on Atmospheric Pressure Plasma Jets and Their Applications. IEEE Transactions on Plasma Science, 2019, 47, 4773-4773.	1.3	1
12	Palliative Treatment of Head and Neck Cancer. , 2018, , 185-195.		2
13	Cold Atmospheric Plasma Parameters Investigation for Efficient Drug Delivery in HeLa Cells. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 109-115.	3.7	47
14	Clinical experience with cold plasma in the treatment of locally advanced head and neck cancer. Clinical Plasma Medicine, 2018, 9, 6-13.	3.2	236
15	Changes in Oxygen Level Upon Cold Plasma Treatments: Consequences for RONS Production. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 147-152.	3.7	20
16	Plasma action on helium flow in cold atmospheric pressure plasma jet experiments. Plasma Sources Science and Technology, 2017, 26, 105001.	3.1	73
17	Experimental Study Of An Ultra-Fast Atmospheric Pressure Air Discharge In A Pin-To-Plate Geometry. , 2017, , .		2
18	Innovative non-thermal plasma disinfection process inside sealed bags: Assessment of bactericidal and sporicidal effectiveness in regard to current sterilization norms. PLoS ONE, 2017, 12, e0180183.	2.5	43

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19	Numerical and experimental study of the dynamics of a $1/4$ helium plasma gun discharge with various amounts of N_2 admixture. Plasma Sources Science and Technology, 2016, 25, 035002.	3.1	140
20	Experimental study of ultra-fast electric field in an atmospheric pressure discharge in a pin-to-plate geometry. , 2016, , .		1
21	New insights on the propagation of pulsed atmospheric plasma streams: From single jet to multi jet arrays. Physics of Plasmas, 2015, 22, .	1.9	159
22	Plasma jet-induced tissue oxygenation: potentialities for new therapeutic strategies. Plasma Sources Science and Technology, 2014, 23, 012005.	3.1	90
23	Helical Plasma Propagation of Microsecond Plasma Gun Discharges. IEEE Transactions on Plasma Science, 2014, 42, 2506-2507.	1.3	19
24	LIF and fast imaging plasma jet characterization relevant for NTP biomedical applications. Journal Physics D: Applied Physics, 2014, 47, 275401.	2.8	121
25	Unexpected Plasma Plume Shapes Produced by a Microsecond Plasma Gun Discharge. IEEE Transactions on Plasma Science, 2014, 42, 2504-2505.	1.3	17
26	Atmospheric-pressure plasma transfer across dielectric channels and tubes. Journal Physics D: Applied Physics, 2013, 46, 155203.	2.8	59
27	Perspectives of endoscopic plasma applications. Clinical Plasma Medicine, 2013, 1, 8-16.	3.2	96
28	Applications thérapeutiques des plasmas froids atmosphériques. , 2013, , 17-22.	0.1	3
29	Dynamics of ionization wave splitting and merging of atmospheric-pressure plasmas in branched dielectric tubes and channels. Journal Physics D: Applied Physics, 2012, 45, 275201.	2.8	55
30	Effects of a Non Thermal Plasma Treatment Alone or in Combination with Gemcitabine in a MIA PaCa2-luc Orthotopic Pancreatic Carcinoma Model. PLoS ONE, 2012, 7, e52653.	2.5	207
31	Experimental Study of a Gas Jet Generated by an Atmospheric Microcavity Discharge. IEEE Transactions on Plasma Science, 2012, 40, 2817-2821.	1.3	7
32	ROS implication in a new antitumor strategy based on non-thermal plasma. International Journal of Cancer, 2012, 130, 2185-2194.	5.1	520
33	Abstract 2839: Antitumor activity on colorectal and pancreatic tumors of a new strategy based on ROS generation by non-thermal plasma. , 2012, , .		0
34	Response of Human Glioma U87 Xenografted on Mice to Non Thermal Plasma Treatment. Plasma Medicine, 2011, 1, 27-43.	0.6	115
35	Splitting and Mixing of High-Velocity Ionization-Wave-Sustained Atmospheric-Pressure Plasmas Generated With a Plasma Gun. IEEE Transactions on Plasma Science, 2011, 39, 2356-2357.	1.3	31
36	Antitumor Effect of Plasma Treatment on U87 Glioma Xenografts: Preliminary Results. Plasma Processes and Polymers, 2010, 7, 264-273.	3.0	236

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37	Study of pulsed neon-xenon VUV radiating low pressure plasmas for mercury free fluorescent sign optimization. Journal Physics D: Applied Physics, 2010, 43, 135202.	2.8	12
38	INVESTIGATION OF A SURFACE DIELECTRIC BARRIER DISCHARGE DEDICATED TO BOUNDARY LAYER CONTROL. High Temperature Material Processes, 2009, 13, 93-105.	0.6	0
39	Characterization and optimization of a flash-X-ray source for diagnostic of dense sprays. , 2009, , .		1
40	Experimental study of a DBD surface discharge for the active control of subsonic airflow. Journal Physics D: Applied Physics, 2008, 41, 155201.	2.8	111
41	Potentialities of neon xenon pulsed discharges for publicity and architectural lighting. , 2008, , .		1
42	Energetic Photons From Transient Plasma Discharges. AIP Conference Proceedings, 2008, , .	0.4	0
43	A DC corona discharge on a flat plate to induce air movement. Journal of Electrostatics, 2007, 65, 655-659.	1.9	38
44	Energy deposition effect on the NOx remediation in oxidative media using atmospheric non thermal plasmas. EPJ Applied Physics, 2006, 33, 195-198.	0.7	12
45	Time-resolved postdischarge absolute silicon monoxide density measurement by resonant absorption spectroscopy in a nonthermal atmospheric plasma. Journal of Applied Physics, 2006, 100, 093301.	2.5	1
46	Spectroscopic and electrical study of rare-gas-based, hollow cathode luminescent discharges: Application to the lifetime and efficiency enhancement of mercury-free signs. Pure and Applied Chemistry, 2005, 77, 463-474.	1.9	11
47	Nuclear resonance spectroscopy of the 31-yr isomer of Hf-178. Laser Physics Letters, 2005, 2, 162-167.	1.4	15
48	Non Thermal Plasma NOx Remediation: From Binary Gas Mixture to Lean-Burn Gasoline and Diesel Engine Exhaust. Journal of Advanced Oxidation Technologies, 2005, 8, .	0.5	2
49	Caract�risation du seuil d'ablation des parois dans les sources de rayonnement EUV par d�charge capillaire. European Physical Journal Special Topics, 2005, 127, 157-162.	0.2	1
50	The use of selected monochromatic X-rays to induce a cascade of gamma transitions from the 31-year nuclear isomer to the 4 second isomeric state of Hf-178. European Physical Journal Special Topics, 2005, 127, 163-168.	0.2	1
51	Absolute silicon monoxide density measurement by self-absorbed spectroscopy in a non-thermal atmospheric plasma. Journal Physics D: Applied Physics, 2004, 37, 1750-1758.	2.8	4
52	A novel fast capillary discharge system emitting intense EUV radiation. Microelectronic Engineering, 2003, 65, 47-59.	2.4	23
53	Discharge-based sources of XUV-X radiations: development and applications. Plasma Sources Science and Technology, 2003, 12, S43-S50.	3.1	9
54	Investigations of silicon oxide UV emission in a non-thermal atmospheric plasma��comparison with synthetic spectra. Journal Physics D: Applied Physics, 2003, 36, 2060-2066.	2.8	4

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55	Development of a 10-kHz capillary discharge EUV lamp. , 2003, , .		0
56	Experimental study and development of a single-focus-burst x-ray flash. , 2003, 4948, 598.		0
57	Étude théorique et expérimentale d'une source EUV par décharge capillaire. European Physical Journal Special Topics, 2003, 108, 263-266.	0.2	0
58	CAPELLA : A versatile laboratory soft X-ray source. European Physical Journal Special Topics, 2003, 104, 135-135.	0.2	0
59	CAPELLA : une source de rayonnement extrême UV Å 13.5 nm par décharge capillaire. European Physical Journal Special Topics, 2003, 108, 259-262.	0.2	0
60	Étude et développement d'un flash X rafale Å foyer unique. European Physical Journal Special Topics, 2003, 108, 183-186.	0.2	0
61	Diagnostic X de la zone proche injecteur d'un jet cryogénique d'azote sous haute pression. European Physical Journal Special Topics, 2003, 108, 187-190.	0.2	0
62	Mesure de la concentration absolue de SiO par spectroscopie d'absorption UV. European Physical Journal Special Topics, 2003, 108, 131-134.	0.2	1
63	Source par décharge capillaire pour la lithographie EUV. European Physical Journal Special Topics, 2003, 108, 169-172.	0.2	0
64	X-ray diagnostics of the near injector zone of cryogenic nitrogen jets at supercritical pressures. , 2003, , .		2
65	Capillary discharge sources of hard UV radiation. Plasma Sources Science and Technology, 2002, 11, A64-A68.	3.1	2
66	NOx remediation in oxygen-rich exhaust gas using atmospheric pressure non-thermal plasma generated by a pulsed nanosecond dielectric barrier discharge. Journal Physics D: Applied Physics, 2002, 35, 1491-1498.	2.8	96
67	CAPELLA: a kHz and low-debris capillary discharge EUV source. , 2002, 4688, 672.		4
68	Ozone Production by an Ultra-Short Triggered Dielectric Barrier Discharge.. Ozone: Science and Engineering, 2002, 24, 203-213.	2.5	4
69	Dynamics and Emission Characteristics of Xenon Capillary Discharge. AIP Conference Proceedings, 2002, , .	0.4	1
70	Recent progress in EUV source development at GREMI. Microelectronic Engineering, 2002, 61-62, 179-185.	2.4	4
71	Time resolved diagnostics of plasmas in polyacetal ablative capillary discharges. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 299, 571-576.	2.1	5
72	Tunable synchrotron radiation used to induce β^3 -emission from the 31 year isomer of ^{178}Hf . Europhysics Letters, 2002, 57, 677-682.	2.0	31

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73	Gamma-Ray Transitions Induced in Nuclear Spin Isomers by X-Rays. <i>Hyperfine Interactions</i> , 2001, 135, 51-70.	0.5	19
74	<title>Spectroscopic and energetic investigation of capillary discharges devoted to EUV production for new lithography generation</title>. , 2001, 4343, 566.		6
75	<title>Spray and gaseous jet diagnostics using x-ray-induced fluorescence imaging and flash radiography</title>. , 2001, , .		0
76	Comparative study of x-ray-flash-, e-beam-, and ion-beam-induced molecular ion continua fluorescence of rare gases. , 2000, 4071, 240.		0
77	Study of the gamma emission from the 31-yr isomer of 178Hf induced by x-ray irradiation. <i>Physics of Atomic Nuclei</i> , 2000, 63, 2067-2072.	0.4	10
78	β^+ emission from the 31-yr isomer of 178Hf induced by x-ray irradiation. <i>Physical Review C</i> , 2000, 61, .	2.9	30
79	Study of a fast ablative capillary discharge dedicated to soft x-ray production. <i>Review of Scientific Instruments</i> , 2000, 71, 15-19.	1.3	34
80	Rotational temperature measurements in atmospheric pulsed dielectric barrier discharge - gas temperature and molecular fraction effects. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 1493-1498.	2.8	119
81	Time-resolved spatial distribution of an ablative capillary discharge obtained with a pinhole camera. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 1837-1842.	2.8	11
82	Mesure de la densité de 'OH(X) par Absorption d'un Rayonnement UV Extérieur Auto-accordé (AREA). <i>European Physical Journal Special Topics</i> , 1999, 09, PR5-121-PR5-122.	0.2	0
83	Molecular-ion continua of the radiation emitted by rare gas plasmas. <i>Quantum Electronics</i> , 1999, 29, 989-994.	1.0	0
84	[OH(X)] measurements by resonant absorption spectroscopy in a pulsed dielectric barrier discharge. <i>Journal of Applied Physics</i> , 1999, 85, 7070-7075.	2.5	131
85	Simultaneous flash x-ray induced fluorescence imaging and radiography of argon jets in ambient air. <i>Measurement Science and Technology</i> , 1999, 10, 789-795.	2.6	5
86	Spectroscopic study of an ablative capillary discharge dedicated to the development of a soft x-ray amplifier. , 1999, , .		0
87	Development of a Blumlein generator dedicated to a fast-capillary discharge XUV source. , 1999, , .		0
88	Impulsions nanosecondes de rayons X durs à haut taux de fréquence et en mode rafale à partir d'un système compact et facilement transportable. <i>European Physical Journal Special Topics</i> , 1999, 09, Pr5-45-Pr5-46.	0.2	1
89	Effets de l'action synchronisée d'une source VUV et d'une décharge DBD impulsionnelles déclenchées sur la production d'espèces oxydantes. <i>European Physical Journal Special Topics</i> , 1999, 09, Pr5-85-Pr5-86.	0.2	0
90	Décharges capillaires pour la production de rayonnement X-mou cohérent et incohérent. <i>European Physical Journal Special Topics</i> , 1999, 09, Pr5-35-Pr5-38.	0.2	0

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91	Caractérisation de jets gazeux par radiographie à clair et Fluorescence Induite par flash X (F.I.X.). European Physical Journal Special Topics, 1999, 09, Pr5-83-Pr5-84.	0.2	0
92	Production d'impulsions de photons dans l'UV-VUV. European Physical Journal Special Topics, 1999, 09, Pr5-13-Pr5-14.	0.2	0
93	Flash x-ray radiography of argon jets in ambient air. Measurement Science and Technology, 1998, 9, 1537-1542.	2.6	12
94	High repetition rate compact source of nanosecond pulses of 50-100 keV x-ray photons. Review of Scientific Instruments, 1997, 68, 2292-2297.	1.3	27
95	Modeling of high-pressure rare gas plasmas excited by an energetic flash X-ray source. IEEE Journal of Quantum Electronics, 1997, 33, 2119-2127.	1.9	6
96	Title is missing!. Plasma Chemistry and Plasma Processing, 1997, 17, 393-407.	2.4	23
97	Génération de rayonnement X cohérent et incohérent par décharges et micro-décharges capillaires : progrès récents et perspectives. Annales De Physique, 1997, 22, C1-53-C1-60.	0.2	0
98	Détection d'énergie par rayonnement X dans les gaz rares à haute pression. Annales De Physique, 1997, 22, C1-135-C1-136.	0.2	0
99	Étude paramétrique d'une source X impulsionnelle créée par décharge rapide THT dans le vide ou dans les gaz basse pression. Annales De Physique, 1997, 22, C1-71-C1-72.	0.2	0
100	SPHINX : générateur de rayons X pulsés, ultra-compact à cadence élevée. Annales De Physique, 1997, 22, C1-77-C1-78.	0.2	0
101	Mesure de la température rotationnelle de OH par spectroscopie UV dans une D.B.D. T.H.T. impulsionnelle. Annales De Physique, 1997, 22, C1-129-C1-130.	0.2	0
102	Sources flash X compactes à haut taux de répétition. European Physical Journal Special Topics, 1996, 06, C4-747-C4-753.	0.2	2
103	Time-resolved spectroscopy of high pressure rare gases excited by an energetic flash X-ray source. Optics Communications, 1995, 117, 179-188.	2.1	23
104	Source flash X compacte impulsionnelle à haut taux de répétition. Annales De Physique, 1994, 19, C1-167-C1-168.	0.2	1
105	Caractérisation spectroscopique d'un plasma de $\text{CH}_4 + \text{CO}_2$ obtenu par décharge à barrière diélectrique. Annales De Physique, 1994, 19, C1-157-C1-158.	0.2	0
106	Fluorescence des gaz rares à haute pression excités par flash X rapide. Annales De Physique, 1994, 19, C1-9-C1-16.	0.2	1
107	Approche de l'interaction laser UV - cible liquide par ombroscopie X. Annales De Physique, 1994, 19, C1-47-C1-48.	0.2	1
108	Compact flash x-ray source producing high average powers in nanosecond pulses. Review of Scientific Instruments, 1993, 64, 2320-2325.	1.3	14

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109	Theoretical study of the Rydberg excited electronic states of Ar ⁺ 2. Journal of Chemical Physics, 1992, 96, 6093-6103.	3.0	24
110	Theoretical study of the electronic structure of Ar ⁺⁺ 2. Journal of Chemical Physics, 1992, 96, 6085-6092.	3.0	37
111	Caractérisation d'une décharge rapide dans Hg pur. Annales De Physique, 1992, 17, 73-75.	0.2	1
112	Continu d'émission UV-VUV du néon dans des plasmas à haute pression. Annales De Physique, 1992, 17, 77-78.	0.2	0
113	Etude, caractérisation et optimisation de lampes flash microseconde et submicroseconde dans le domaine 200-300 nm. Annales De Physique, 1992, 17, 79-80.	0.2	0
114	Génération d'UV-X mous par décharge électrique. Annales De Physique, 1992, 17, 229-230.	0.2	0
115	Third continuum of argon in high pressure plasmas excited by dielectric controlled discharge. Optics Communications, 1990, 79, 41-44.	2.1	18
116	Fluorescence of high-pressure argon excited by an energetic flash X-ray source. Journal Physics D: Applied Physics, 1990, 23, 984-986.	2.8	24
117	Study of two-body and three-body channels for the reaction of metastable helium atoms with selected atomic and molecular species. Journal of Chemical Physics, 1988, 88, 3061-3071.	3.0	38
118	The importance of three-body processes to reaction kinetics at atmospheric pressures. III. Reactions of He ₂ ^{+/+} with selected atomic and molecular reactants. IEEE Journal of Quantum Electronics, 1988, 24, 568-572.	1.9	3
119	The importance of three-body processes to reaction kinetics at atmospheric pressures-II: Occlusive effects of discharge morphology. IEEE Journal of Quantum Electronics, 1986, 22, 47-50.	1.9	2
120	The importance of three-body processes to reaction kinetics at atmospheric pressures-I: Archetype reactions of He species with N ₂ . IEEE Journal of Quantum Electronics, 1986, 22, 38-46.	1.9	12
121	Reactions of He(2s ^{3S}) with argon at atmospheric pressures. Journal of Chemical Physics, 1986, 85, 2338-2340.	3.0	2
122	Spectroscopic study of the afterglow excited by intense electrical discharges in high-pressure helium hydrogen mixtures. Journal of Chemical Physics, 1985, 83, 1095-1100.	3.0	21
123	Study of two-body and three-body channels for the reaction of metastable helium atoms with nitrogen. Journal of Chemical Physics, 1985, 82, 2274-2279.	3.0	18
124	Reactivity of metastable helium molecules in atmospheric pressure afterglows. Journal of Chemical Physics, 1985, 83, 2836-2839.	3.0	19
125	Modeling of the charge transfer afterglow excited by intense electrical discharges in high pressure helium nitrogen mixtures. Journal of Chemical Physics, 1982, 77, 817-825.	3.0	103
126	Reaction kinetics of a high pressure helium fast discharge afterglow. Journal of Chemical Physics, 1982, 76, 4006-4015.	3.0	82