

Davide Mariotti

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131
papers

4,500
citations

35
h-index

64
g-index

170
ext. papers

5,255
ext. citations

5.5
avg, IF

5.74
L-index

#	Paper	IF	Citations
131	Plasma-liquid interactions: a review and roadmap. <i>Plasma Sources Science and Technology</i> , 2016 , 25, 053002	9.2	831
130	Microplasmas for nanomaterials synthesis. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 323001	3	408
129	Plasma-liquid Interactions at Atmospheric Pressure for Nanomaterials Synthesis and Surface Engineering. <i>Plasma Processes and Polymers</i> , 2012 , 9, 1074-1085	3.4	191
128	Synthesis of surfactant-free electrostatically stabilized gold nanoparticles by plasma-induced liquid chemistry. <i>Nanotechnology</i> , 2013 , 24, 245604	3.4	142
127	Recent progress and perspectives of space electric propulsion systems based on smart nanomaterials. <i>Nature Communications</i> , 2018 , 9, 879	17.4	121
126	Perspectives on atmospheric-pressure plasmas for nanofabrication. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 174023	3	112
125	Monoclinic MoO_3 nanosheets produced by atmospheric microplasma: application to lithium-ion batteries. <i>Nanotechnology</i> , 2008 , 19, 495302	3.4	90
124	Self-organized nanostructures on atmospheric microplasma exposed surfaces. <i>Applied Physics Letters</i> , 2007 , 91, 183111	3.4	88
123	Nonequilibrium and effect of gas mixtures in an atmospheric microplasma. <i>Applied Physics Letters</i> , 2008 , 92, 151505	3.4	82
122	The production of self-organized carbon connections between Ag nanoparticles using atmospheric microplasma synthesis. <i>Carbon</i> , 2009 , 47, 344-347	10.4	75
121	Silicon Nanocrystals in Liquid Media: Optical Properties and Surface Stabilization by Microplasma-Induced Non-Equilibrium Liquid Chemistry. <i>Advanced Functional Materials</i> , 2012 , 22, 954-964	15.6	63
120	Tailoring microplasma nanofabrication: from nanostructures to nanoarchitectures. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 092002	3	63
119	Ambient-stable blue luminescent silicon nanocrystals prepared by nanosecond-pulsed laser ablation in water. <i>Optics Express</i> , 2009 , 17, 520-7	3.3	63
118	Understanding surface chemistry during MAPbI ₃ spray deposition and its effect on photovoltaic performance. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 902-916	7.1	62
117	Photovoltaic Applications of Silicon Nanocrystal Based Nanostructures Induced by Nanosecond Laser Fragmentation in Liquid Media. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5084-5093	3.8	62
116	Environmentally friendly nitrogen-doped carbon quantum dots for next generation solar cells. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1611-1619	5.8	61
115	Microplasma Processed Ultrathin Boron Nitride Nanosheets for Polymer Nanocomposites with Enhanced Thermal Transport Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13567-72	9.5	61

114	Surface-engineered silicon nanocrystals. <i>Nanoscale</i> , 2013 , 5, 1385-98	7.7	60
113	Microplasmas for Advanced Materials and Devices. <i>Advanced Materials</i> , 2020 , 32, e1905508	24	59
112	Crystalline Si nanoparticles below crystallization threshold: Effects of collisional heating in non-thermal atmospheric-pressure microplasmas. <i>Applied Physics Letters</i> , 2014 , 104, 163103	3.4	58
111	Microplasma-induced surface engineering of silicon nanocrystals in colloidal dispersion. <i>Applied Physics Letters</i> , 2010 , 97, 161502	3.4	58
110	Gas temperature and electron temperature measurements by emission spectroscopy for an atmospheric microplasma. <i>Journal of Applied Physics</i> , 2007 , 101, 013307	2.5	58
109	Method to determine argon metastable number density and plasma electron temperature from spectral emission originating from four 4p argon levels. <i>Applied Physics Letters</i> , 2006 , 89, 201502	3.4	55
108	Flow rate effect on the structure and morphology of molybdenum oxide nanoparticles deposited by atmospheric-pressure microplasma processing. <i>Nanotechnology</i> , 2006 , 17, 5976-5982	3.4	51
107	Low-Temperature Atmospheric Pressure Plasma Processes for Green Third Generation Photovoltaics. <i>Plasma Processes and Polymers</i> , 2016 , 13, 70-90	3.4	50
106	Charge carrier localised in zero-dimensional (CHNH)Bi clusters. <i>Nature Communications</i> , 2017 , 8, 170	17.4	48
105	Continuous In-Flight Synthesis for On-Demand Delivery of Ligand-Free Colloidal Gold Nanoparticles. <i>Nano Letters</i> , 2017 , 17, 1336-1343	11.5	46
104	Plasma-driven self-organization of Ni nanodot arrays on Si(100). <i>Applied Physics Letters</i> , 2008 , 93, 183103	3.4	46
103	Self-organized carbon connections between catalyst particles on a silicon surface exposed to atmospheric-pressure Ar + CH ₄ microplasmas. <i>Carbon</i> , 2009 , 47, 2379-2390	10.4	45
102	Reactive Evaporation of Metal Wire and Microdeposition of Metal Oxide Using Atmospheric Pressure Reactive Microplasma Jet. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 8228-8234	1.4	45
101	Gold nanoparticle-polymer nanocomposites synthesized by room temperature atmospheric pressure plasma and their potential for fuel cell electrocatalytic application. <i>Scientific Reports</i> , 2017 , 7, 46682	4.9	44
100	Silicon-based quantum dots: synthesis, surface and composition tuning with atmospheric pressure plasmas. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 314002	3	44
99	. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 1027-1033	1.3	43
98	Experimental study of breakdown voltage and effective secondary electron emission coefficient for a micro-plasma device. <i>Plasma Sources Science and Technology</i> , 2004 , 13, 207-212	3.5	42
97	Ultra-small CuO nanoparticles with tailored energy-band diagram synthesized by a hybrid plasma-liquid process. <i>Plasma Processes and Polymers</i> , 2017 , 14, 1600224	3.4	39

96	A hybrid heterojunction based on fullerenes and surfactant-free, self-assembled, closely packed silicon nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 415402	3	34
95	Enhanced Dispersion of TiO ₂ Nanoparticles in a TiO ₂ /PEDOT:PSS Hybrid Nanocomposite via Plasma-Liquid Interactions. <i>Scientific Reports</i> , 2015 , 5, 15765	4.9	32
94	Improved Optoelectronic Properties of Silicon Nanocrystals/Polymer Nanocomposites by Microplasma-Induced Liquid Chemistry. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23198-23207	3.8	31
93	Microplasma-assisted electrochemical synthesis of Co ₃ O ₄ nanoparticles in absolute ethanol for energy applications. <i>Green Chemistry</i> , 2018 , 20, 2101-2109	10	30
92	Ultra-small photoluminescent silicon-carbide nanocrystals by atmospheric-pressure plasmas. <i>Nanoscale</i> , 2016 , 8, 17141-17149	7.7	30
91	Synthesis and surface engineering of nanomaterials by atmospheric-pressure microplasmas. <i>EPJ Applied Physics</i> , 2011 , 56, 24020	1.1	29
90	A silicon nanocrystal/polymer nanocomposite as a down-conversion layer in organic and hybrid solar cells. <i>Nanoscale</i> , 2015 , 7, 11566-74	7.7	28
89	Structure and Optical Properties of Carbon Nanoparticles Generated by Laser Treatment of Graphite in Liquids. <i>ChemPhysChem</i> , 2017 , 18, 1074-1083	3.2	26
88	Investigations into nanofluids as direct solar radiation collectors. <i>Solar Energy</i> , 2017 , 147, 426-431	6.8	25
87	Experimental study of a planar atmospheric-pressure plasma operating in the microplasma regime. <i>Physical Review E</i> , 2009 , 80, 065401	2.4	25
86	Electric and thermal characteristics of the linear, sectional dc plasma generator. <i>Plasma Sources Science and Technology</i> , 2004 , 13, 199-206	3.5	25
85	Photosensitive self-assembled nanoarchitectures containing surfactant-free Si nanocrystals produced by laser fragmentation in water. <i>Chemical Physics Letters</i> , 2009 , 478, 224-229	2.5	24
84	Characterization of a DC-driven microplasma between a capillary tube and water surface. <i>Europhysics Letters</i> , 2013 , 102, 15002	1.6	23
83	Dramatic Enhancement of Photoluminescence Quantum Yields for Surface-Engineered Si Nanocrystals within the Solar Spectrum. <i>Advanced Functional Materials</i> , 2013 , 23, 6051-6058	15.6	23
82	Atmospheric pressure microplasma for antibacterial silver nanoparticle/chitosan nanocomposites with tailored properties. <i>Composites Science and Technology</i> , 2020 , 186, 107911	8.6	23
81	Microplasma-Induce Liquid Chemistry for Stabilizing of Silicon Nanocrystals Optical Properties in Water. <i>Plasma Processes and Polymers</i> , 2014 , 11, 158-163	3.4	21
80	Metal nanoparticle-hydrogel nanocomposites for biomedical applications [An atmospheric pressure plasma synthesis approach. <i>Plasma Processes and Polymers</i> , 2018 , 15, 1800112	3.4	21
79	Design of composite microneedle sensor systems for the measurement of transdermal pH. <i>Materials Chemistry and Physics</i> , 2019 , 227, 340-346	4.4	19

78	Atmospheric-pressure dielectric barrier discharge with capillary injection for gas-phase nanoparticle synthesis. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 314003	3	19
77	Low-Loss and Tunable Localized Mid-Infrared Plasmons in Nanocrystals of Highly Degenerate InN. <i>Nano Letters</i> , 2018 , 18, 5681-5687	11.5	19
76	The Interplay of Quantum Confinement and Hydrogenation in Amorphous Silicon Quantum Dots. <i>Advanced Materials</i> , 2015 , 27, 8011-6	24	19
75	Multi-functional MnO nanomaterials for photo-activated applications by a plasma-assisted fabrication route. <i>Nanoscale</i> , 2018 , 11, 98-108	7.7	18
74	Energy band diagram of device-grade silicon nanocrystals. <i>Nanoscale</i> , 2016 , 8, 6623-8	7.7	18
73	Temperature-dependent photoluminescence of surface-engineered silicon nanocrystals. <i>Scientific Reports</i> , 2016 , 6, 27727	4.9	18
72	Hierarchical bi-dimensional alumina/palladium nanowire nano-architectures for hydrogen detection, storage and controlled release. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6165-6172	6.7	17
71	Controlled microdroplet transport in an atmospheric pressure microplasma. <i>Applied Physics Letters</i> , 2015 , 106, 224101	3.4	17
70	Zero-dimensional methylammonium iodo bismuthate solar cells and synergistic interactions with silicon nanocrystals. <i>Nanoscale</i> , 2017 , 9, 18759-18771	7.7	17
69	The importance of surface states in N-doped carbon quantum dots. <i>Carbon</i> , 2021 , 183, 1-11	10.4	17
68	Varying Surface Chemistries for p-Doped and n-Doped Silicon Nanocrystals and Impact on Photovoltaic Devices. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28207-14	9.5	14
67	Type-I alignment in MAPbI ₃ based solar devices with doped-silicon nanocrystals. <i>Nano Energy</i> , 2018 , 50, 245-255	17.1	14
66	Size-dependent stability of ultra-small β -phase tin nanocrystals synthesized by microplasma. <i>Nature Communications</i> , 2019 , 10, 817	17.4	13
65	Porous zinc oxide nanocrystalline film deposition by atmospheric pressure plasma: Fabrication and energy band estimation. <i>Plasma Processes and Polymers</i> , 2017 , 14, 1700052	3.4	13
64	Carbon nanotube growth activated by quantum-confined silicon nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 122001	3	13
63	Plasma-controlled metal catalyst saturation and the initial stage of carbon nanostructure array growth. <i>Journal of Applied Physics</i> , 2008 , 104, 073308	2.5	13
62	Atmospheric Pressure Plasma-Synthesized Gold Nanoparticle/Carbon Nanotube Hybrids for Photothermal Conversion. <i>Langmuir</i> , 2019 , 35, 4577-4588	4	12
61	Semiconducting quantum confined silicon-tin alloyed nanocrystals prepared by ns pulsed laser ablation in water. <i>Nanoscale</i> , 2013 , 5, 6725-30	7.7	12

60	Bandgap Engineering in OH-Functionalized Silicon Nanocrystals: Interplay between Surface Functionalization and Quantum Confinement. <i>Advanced Functional Materials</i> , 2017 , 27, 1701898	15.6	11
59	Synthesis of nanocrystals by discharges in liquid nitrogen from Si-Sn sintered electrode. <i>Scientific Reports</i> , 2015 , 5, 17477	4.9	11
58	Characterization of hollow cathode and parallel plate microplasmas: scaling and breakdown. <i>Plasma Sources Science and Technology</i> , 2011 , 20, 025011	3.5	11
57	Enhancement of hybrid solar cell performance by polythieno [3,4-b]thiophenebenzodithiophene and microplasma-induced surface engineering of silicon nanocrystals. <i>Applied Physics Letters</i> , 2012 , 100, 223904	3.4	11
56	Environmentally Friendly Processing Technology for Engineering Silicon Nanocrystals in Water with Laser Pulses. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18822-18830	3.8	11
55	Novel biomaterials: plasma-enabled nanostructures and functions. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 273001	3	10
54	Plasma-induced non-equilibrium electrochemistry synthesis of nanoparticles for solar thermal energy harvesting. <i>Solar Energy</i> , 2020 , 203, 37-45	6.8	10
53	Nanostructured Perovskite Solar Cells. <i>Nanomaterials</i> , 2019 , 9,	5.4	9
52	Stable ultrathin surfactant-free surface-engineered silicon nanocrystal solar cells deposited at room temperature. <i>Energy Science and Engineering</i> , 2017 , 5, 184-193	3.4	9
51	Built-In Charges and Photoluminescence Stability of 3D Surface-Engineered Silicon Nanocrystals by a Nanosecond Laser and a Direct Current Microplasma. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10939-10948 ⁹	3.8	9
50	Thermoresponsive nanocomposites incorporating microplasma synthesized magnetic nanoparticles Synthesis and potential applications. <i>Plasma Processes and Polymers</i> , 2019 , 16, 1800128	3.4	9
49	One-step synthesis of strongly confined, defect-free and hydroxy-terminated ZnO quantum dots. <i>Nanotechnology</i> , 2020 , 31, 215707	3.4	8
48	Activated Functionalized Carbon Nanotubes and 2D Nanostructured MoS ₂ Hybrid Electrode Material for High-Performance Supercapacitor Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900855	1.6	8
47	Semiconducting silicon-tin alloy nanocrystals with direct bandgap behavior for photovoltaic devices. <i>Materials Today Energy</i> , 2018 , 7, 87-97	7	8
46	Evolution of Anodic Product from Molybdenum Metal in Absolute Ethanol and Humidity Sensing under Ambient Conditions. <i>Crystal Growth and Design</i> , 2019 , 19, 5249-5257	3.5	8
45	Formation of Single-Crystal Spherical Particle Architectures by Plasma-Induced Low-Temperature Coalescence of Silicon Nanocrystals Synthesized by Laser Ablation in Water. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6235-6242	3.8	8
44	Analysis of excitation processes and electron temperature changes from spectral data in a dc micro plasma discharge. <i>Plasma Sources Science and Technology</i> , 2004 , 13, 576-581	3.5	8
43	Chitosan/Silver Nanoparticle/Graphene Oxide Nanocomposites with Multi-Drug Release, Antimicrobial, and Photothermal Conversion Functions. <i>Materials</i> , 2021 , 14,	3.5	8

42	Dissociation of tetramethylsilane for the growth of SiC nanocrystals by atmospheric pressure microplasma. <i>Plasma Processes and Polymers</i> , 2020 , 17, 1900243	3.4	7
41	Controlling the Energy-Level Alignment of Silicon Carbide Nanocrystals by Combining Surface Chemistry with Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1721-1728	6.4	7
40	Surface Functionalization of Grown-on-Tip ZnO Nanopyramids: From Fabrication to Light-Triggered Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15881-15890	9.5	6
39	Dense Plasmas in Magnetic Traps: Generation of Focused Ion Beams With Controlled Ion-to-Neutral Flux Ratios. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 2518-2519	1.3	6
38	Microplasma assisted synthesis of gold nanoparticle/graphene oxide nanocomposites and their potential application in SERS sensing. <i>Nanotechnology</i> , 2019 , 30, 455603	3.4	5
37	Combinatorial atomistic-to-AI prediction and experimental validation of heating effects in 350 F supercapacitor modules. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 171, 121075	4.9	5
36	Precision charging of microparticles in plasma via the Rayleigh instability for evaporating charged liquid droplets. <i>Journal of Aerosol Science</i> , 2016 , 100, 53-60	4.3	5
35	Microplasma-synthesized ultra-small NiO nanocrystals, a ubiquitous hole transport material. <i>Nanoscale Advances</i> , 2019 , 1, 4915-4925	5.1	5
34	Significant Carrier Extraction Enhancement at the Interface of an InN/p-GaN Heterojunction under Reverse Bias Voltage. <i>Nanomaterials</i> , 2018 , 8,	5.4	5
33	Continuous gas temperature measurement of cold plasma jets containing microdroplets, using a focused spot IR sensor. <i>Plasma Sources Science and Technology</i> , 2020 , 29, 085010	3.5	4
32	Synthesis of Copper-Based Nanostructures in Liquid Environments by Means of a Non-equilibrium Atmospheric Pressure Nanopulsed Plasma Jet. <i>Plasma Chemistry and Plasma Processing</i> , 2018 , 38, 1209-1222	3.6	4
31	Depth-sensitive analysis of a degraded tin oxide electrode surface in a plasma device application. <i>Thin Solid Films</i> , 2001 , 401, 196-202	2.2	4
30	(Invited) Microplasmas Technologies for Engineering of Silicon Based Quantum Dot Solar Cells. <i>ECS Transactions</i> , 2017 , 77, 1-8	1	3
29	Electronic interactions of silicon nanocrystals and nanocarbon materials: Hybrid solar cells. <i>Pure and Applied Chemistry</i> , 2012 , 84, 2629-2639	2.1	3
28	Doping Independent Work Function and Stable Band Gap of Spinel Ferrites with Tunable Plasmonic and Magnetic Properties. <i>Nano Letters</i> , 2021 , 21, 9780-9788	11.5	3
27	Characterization of microwave absorption in carbon nanotubes using resonance aperture transmission method. <i>Journal of Applied Physics</i> , 2020 , 128, 045109	2.5	3
26	Impact of Silicon Nanocrystal Oxidation on the Nonmetallic Growth of Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19012-23	9.5	3
25	Tuning the Bandgap Character of Quantum-Confined Si ₃ N ₄ Alloyed Nanocrystals. <i>Advanced Functional Materials</i> , 2020 , 30, 1907210	15.6	2

24	Bridging energy bands to the crystalline and amorphous states of Si QDs. <i>Faraday Discussions</i> , 2020 , 222, 390-404	3.6	2
23	Probing the structure-property-composition relationship in organic-inorganic tri-halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 20489-20496	3.6	2
22	Hybrid Carbon-Based Nanostructured Platforms for the Advanced Bioreactors. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 10074-90	1.3	2
21	Integration of Surfactant-Free Silicon Nanocrystal in Hybrid Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 10NE25	1.4	2
20	Luminescent Colloidal Silicon Nanocrystals Prepared by Nanoseconds Laser Fragmentation and Laser Ablation in Water. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1066, 1		2
19	Localized deposition of metallic molybdenum particles in ambient air using atmospheric-pressure microplasma 2007 ,		2
18	Gas recognition using a neural network approach to plasma optical emission spectroscopy 2000 , 4120, 246		2
17	Silicon Nanocrystals Surface Engineering by Nanosecond Laser Processing in Water. <i>The Review of Laser Engineering</i> , 2012 , 40, 128	0	2
16	Integration of Surfactant-Free Silicon Nanocrystal in Hybrid Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 10NE25	1.4	2
15	Effect of precursor pH on AuNP/MWCNT nanocomposites synthesized by plasma-induced non-equilibrium electrochemistry. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 425207	3	2
14	Understanding plasma-ethanol non-equilibrium electrochemistry during the synthesis of metal oxide quantum dots. <i>Green Chemistry</i> , 2021 , 23, 3983-3995	10	2
13	Understanding the depletion of electrons in dusty plasmas at atmospheric pressure. <i>Plasma Sources Science and Technology</i> , 2020 , 29, 075011	3.5	1
12	Microelectronic engineering education for emerging technologies 2010 ,		1
11	Melt-extrusion 3D printing of resorbable levofloxacin-loaded meshes: Emerging strategy for urogynaecological applications. <i>Materials Science and Engineering C</i> , 2021 , 131, 112523	8.3	1
10	Air-Cathode with 3D Multiphase Electrocatalyst Interface Design for High-Efficiency and Durable Rechargeable Zinc-Air Batteries. <i>Energy Technology</i> , 2021 , 9, 2000999	3.5	1
9	Silicon Nanocrystal/Nanocarbon Hybrids 2016 , 543-561		1
8	Performance and stability gain in zero-dimensional perovskite solar cells after >2 years when hybridized with silicon nanocrystals. <i>Nanoscale Advances</i> , 2019 , 1, 4683-4687	5.1	1
7	Surfactant-free synthesis of copper nanoparticles and gas phase integration in CNT-composite materials. <i>Nanoscale Advances</i> , 2021 , 3, 781-788	5.1	1

6	Regulation of Electrode-Electrolyte Interactions for Improved Heat Recovery of a Thermo-Induced Electric Double-Layer Capacitor. <i>Energy & Fuels</i> , 2022 , 36, 3304-3312	4.1	o
5	Inside Front Cover: Plasma Process. Polym. 12016. <i>Plasma Processes and Polymers</i> , 2016 , 13, 2-2	3.4	
4	Hybrid Plasma-Liquid Treatment of Carbon Nanotubes for Application in Direct Absorption Solar Thermal Collectors. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-01, 875-875		o
3	(Invited) Electronic and Optical Properties of Quantum-Confined Nanoparticles. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-01, 909-909		o
2	Carrier extraction from metallic perovskite oxide nanoparticles. <i>Nanoscale</i> , 2021 , 13, 12271-12278	7.7	
1	Methane detection to 1 ppm using machine learning analysis of atmospheric pressure plasma optical emission spectra. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 225205	3	