

Annemie Bogaerts

List of Publications by Year in descending order

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Version: 2024-02-01

613
papers

29,687
citations

4960

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12597

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634
all docs

634
docs citations

634
times ranked

13595
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward defining plasma treatment dose: The role of plasma treatment energy of pulsed dielectric barrier discharge in dictating in vitro biological responses. <i>Plasma Processes and Polymers</i> , 2022, 19, e2100151.	3.0	8
2	Plasma-Catalytic Methanol Synthesis from CO ₂ Hydrogenation over a Supported Cu Cluster Catalyst: Insights into the Reaction Mechanism. <i>ACS Catalysis</i> , 2022, 12, 1326-1337.	11.2	50
3	Low-Temperature Plasma for Biology, Hygiene, and Medicine: Perspective and Roadmap. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 127-157.	3.7	64
4	Dry reforming of methane in an atmospheric pressure glow discharge: Confining the plasma to expand the performance. <i>Journal of CO2 Utilization</i> , 2022, 56, 101869.	6.8	30
5	Sustainable NO _x production from air in pulsed plasma: elucidating the chemistry behind the low energy consumption. <i>Green Chemistry</i> , 2022, 24, 916-929.	9.0	41
6	Distribution of lipid aldehydes in phase-separated membranes: A molecular dynamics study. <i>Archives of Biochemistry and Biophysics</i> , 2022, 717, 109136.	3.0	2
7	Cold Atmospheric Plasma Does Not Affect Stellate Cells Phenotype in Pancreatic Cancer Tissue in Ovo. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1954.	4.1	15
8	Energy-efficient Small-scale Ammonia Synthesis Process with Plasma-enabled Nitrogen Oxidation and Catalytic Reduction of Adsorbed NO _x . <i>ChemSusChem</i> , 2022, 15, .	6.8	25
9	Modulating the Antioxidant Response for Better Oxidative Stress-Inducing Therapies: How to Take Advantage of Two Sides of the Same Medal?. <i>Biomedicines</i> , 2022, 10, 823.	3.2	9
10	Foundations of plasma catalysis for environmental applications. <i>Plasma Sources Science and Technology</i> , 2022, 31, 053002.	3.1	28
11	Oxygenate Production from Plasma-Activated Reaction of CO ₂ and Ethane. <i>ACS Energy Letters</i> , 2022, 7, 236-241.	17.4	24
12	Effect of Cysteine Oxidation in SARS-CoV-2 Receptor-Binding Domain on Its Interaction with Two Cell Receptors: Insights from Atomistic Simulations. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 129-141.	5.4	9
13	Effusion nozzle for energy-efficient NO _x production in a rotating gliding arc plasma reactor. <i>Chemical Engineering Journal</i> , 2022, 443, 136529.	12.7	18
14	The effect of local non-thermal plasma therapy on the cancer-immunity cycle in a melanoma mouse model. <i>Bioengineering and Translational Medicine</i> , 2022, 7, .	7.1	15
15	Editorial: Special issue on CO ₂ utilization with plasma technology. <i>Journal of CO2 Utilization</i> , 2022, 61, 102017.	6.8	4
16	Carbon bed post-plasma to enhance the CO ₂ conversion and remove O ₂ from the product stream. <i>Chemical Engineering Journal</i> , 2022, 442, 136268.	12.7	18
17	Dry reforming of methane in a nanosecond repetitively pulsed discharge: chemical kinetics modeling. <i>Plasma Sources Science and Technology</i> , 2022, 31, 055014.	3.1	8
18	Feature Papers to Celebrate "Environmental Catalysis" Trends & Outlook. <i>Catalysts</i> , 2022, 12, 720.	3.5	0

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19	The 2022 Plasma Roadmap: low temperature plasma science and technology. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 373001.	2.8	139
20	Insights into the limitations to vibrational excitation of CO ₂ : validation of a kinetic model with pulsed glow discharge experiments. <i>Plasma Sources Science and Technology</i> , 2022, 31, 074003.	3.1	13
21	Cytoglobin inhibits non-thermal plasma-induced apoptosis in melanoma cells through regulation of the NRF2-mediated antioxidant response. <i>Redox Biology</i> , 2022, 55, 102399.	9.0	6
22	Catalyst-free single-step plasma reforming of CH ₄ and CO ₂ to higher value oxygenates under ambient conditions. <i>Chemical Engineering Journal</i> , 2022, 450, 137860.	12.7	21
23	How gas flow design can influence the performance of a DBD plasma reactor for dry reforming of methane. <i>Chemical Engineering Journal</i> , 2021, 405, 126618.	12.7	23
24	On the kinetics and equilibria of plasma-based dry reforming of methane. <i>Chemical Engineering Journal</i> , 2021, 405, 126630.	12.7	30
25	From the Birkeland-Eyde process towards energy-efficient plasma-based NO _x synthesis: a techno-economic analysis. <i>Energy and Environmental Science</i> , 2021, 14, 2520-2534.	30.8	96
26	Sustainable gas conversion by gliding arc plasmas: a new modelling approach for reactor design improvement. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1786-1800.	4.9	29
27	Plasma-Catalytic Partial Oxidation of Methane on Pt(111): A Microkinetic Study on the Role of Different Plasma Species. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2966-2983.	3.1	27
28	Positive and negative streamer propagation in volume dielectric barrier discharges with planar and porous electrodes. <i>Plasma Processes and Polymers</i> , 2021, 18, 2000234.	3.0	20
29	Spatially and temporally non-uniform plasmas: microdischarges from the perspective of molecules in a packed bed plasma reactor. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 174002.	2.8	13
30	Oxidation of Innate Immune Checkpoint CD47 on Cancer Cells with Non-Thermal Plasma. <i>Cancers</i> , 2021, 13, 579.	3.7	26
31	Cocktail of reactive species generated by cold atmospheric plasma: oral administration induces non-small cell lung cancer cell death. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 185202.	2.8	15
32	Covalent Cysteine Targeting of Bruton's Tyrosine Kinase (BTK) Family by Withaferin-A Reduces Survival of Glucocorticoid-Resistant Multiple Myeloma MM1 Cells. <i>Cancers</i> , 2021, 13, 1618.	3.7	10
33	Plasma propagation in a single bead DBD reactor at different dielectric constants: insights from fluid modelling. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 214004.	2.8	16
34	Physical plasma-derived oxidants sensitize pancreatic cancer cells to ferroptotic cell death. <i>Free Radical Biology and Medicine</i> , 2021, 166, 187-200.	2.9	24
35	Probing the impact of material properties of core-shell SiO ₂ @TiO ₂ spheres on the plasma-catalytic CO ₂ dissociation using a packed bed DBD plasma reactor. <i>Journal of CO₂ Utilization</i> , 2021, 46, 101468.	6.8	14
36	Cold Atmospheric Plasma Increases Temozolomide Sensitivity of Three-Dimensional Glioblastoma Spheroids via Oxidative Stress-Mediated DNA Damage. <i>Cancers</i> , 2021, 13, 1780.	3.7	28

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37	Flowing Atmospheric Pressure Afterglow for Ambient Ionization: Reaction Pathways Revealed by Modeling. <i>Analytical Chemistry</i> , 2021, 93, 6620-6628.	6.5	4
38	Thermal instability and volume contraction in a pulsed microwave N ₂ plasma at sub-atmospheric pressure. <i>Plasma Sources Science and Technology</i> , 2021, 30, 055005.	3.1	14
39	Laser-induced excitation mechanisms and phase transitions in spectrochemical analysis – Review of the fundamentals. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 179, 106091.	2.9	10
40	Methane to Methanol through Heterogeneous Catalysis and Plasma Catalysis. <i>Catalysts</i> , 2021, 11, 590.	3.5	13
41	The Quest to Quantify Selective and Synergistic Effects of Plasma for Cancer Treatment: Insights from Mathematical Modeling. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5033.	4.1	4
42	Lipid Oxidation: Role of Membrane Phase-Separated Domains. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 2857-2868.	5.4	12
43	Nitrogen fixation in pulsed microwave discharge studied by infrared absorption combined with modelling. <i>Plasma Sources Science and Technology</i> , 2021, 30, 065007.	3.1	10
44	The essential role of the plasma sheath in plasma-liquid interaction and its applications – A perspective. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	27
45	Oxidative damage to hyaluronan-CD44 interactions as an underlying mechanism of action of oxidative stress-inducing cancer therapy. <i>Redox Biology</i> , 2021, 43, 101968.	9.0	41
46	Evaluation of non-thermal effect of microwave radiation and its mode of action in bacterial cell inactivation. <i>Scientific Reports</i> , 2021, 11, 14003.	3.3	45
47	Plasma treatment causes structural modifications in lysozyme, and increases cytotoxicity towards cancer cells. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 1724-1736.	7.5	21
48	Unraveling the permeation of reactive species across nitrated membranes by computer simulations. <i>Computers in Biology and Medicine</i> , 2021, 136, 104768.	7.0	7
49	Plasma Catalysis for Ammonia Synthesis: A Microkinetic Modeling Study on the Contributions of Elementary Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13151-13163.	6.7	45
50	Advances in non-equilibrium CO ₂ plasma kinetics: a theoretical and experimental review. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	47
51	Selective oxidation of CH ₄ to CH ₃ OH through plasma catalysis: Insights from catalyst characterization and chemical kinetics modelling. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120384.	20.2	32
52	Plasma-Catalytic Ammonia Reforming of Methane over Cu-Based Catalysts for the Production of HCN and H ₂ at Reduced Temperature. <i>ACS Catalysis</i> , 2021, 11, 1765-1773.	11.2	29
53	NO _x production in a rotating gliding arc plasma: potential avenue for sustainable nitrogen fixation. <i>Green Chemistry</i> , 2021, 23, 1748-1757.	9.0	68
54	Nitrogen fixation in an electrode-free microwave plasma. <i>Joule</i> , 2021, 5, 3006-3030.	24.0	63

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55	Al ₂ O ₃ -Supported Transition Metals for Plasma-Catalytic NH ₃ Synthesis in a DBD Plasma: Metal Activity and Insights into Mechanisms. <i>Catalysts</i> , 2021, 11, 1230.	3.5	24
56	Multiscale modeling of plasma–“surface interaction” General picture and a case study of Si and SiO ₂ etching by fluorocarbon-based plasmas. <i>Applied Physics Reviews</i> , 2021, 8, .	11.3	8
57	Auranofin and Cold Atmospheric Plasma Synergize to Trigger Distinct Cell Death Mechanisms and Immunogenic Responses in Glioblastoma. <i>Cells</i> , 2021, 10, 2936.	4.1	35
58	Effect of N ₂ on CO ₂ -CH ₄ conversion in a gliding arc plasmatron: Can this major component in industrial emissions improve the energy efficiency?. <i>Journal of CO₂ Utilization</i> , 2021, 54, 101767.	6.8	13
59	Plasma–“liquid interactions. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	11
60	Power Pulsing To Maximize Vibrational Excitation Efficiency in N ₂ Microwave Plasma: A Combined Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1765-1779.	3.1	34
61	Plasma-enabled catalyst-free conversion of ethanol to hydrogen gas and carbon dots near room temperature. <i>Chemical Engineering Journal</i> , 2020, 382, 122745.	12.7	63
62	Chemistry reduction of complex CO ₂ chemical kinetics: application to a gliding arc plasma. <i>Plasma Sources Science and Technology</i> , 2020, 29, 025012.	3.1	15
63	Ensemble-Based Molecular Simulation of Chemical Reactions under Vibrational Nonequilibrium. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 401-406.	4.6	7
64	Plasma-Catalytic Ammonia Synthesis in a DBD Plasma: Role of Microdischarges and Their Afterglows. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22871-22883.	3.1	52
65	Risk Evaluation of EMT and Inflammation in Metastatic Pancreatic Cancer Cells Following Plasma Treatment. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	14
66	Plasma in Cancer Treatment. <i>Cancers</i> , 2020, 12, 2617.	3.7	7
67	Cold Atmospheric Plasma Treatment for Pancreatic Cancer–“The Importance of Pancreatic Stellate Cells. <i>Cancers</i> , 2020, 12, 2782.	3.7	20
68	Plasma Catalysis for CO ₂ Hydrogenation: Unlocking New Pathways toward CH ₃ OH. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25859-25872.	3.1	35
69	Physical Plasma-Treated Skin Cancer Cells Amplify Tumor Cytotoxicity of Human Natural Killer (NK) Cells. <i>Cancers</i> , 2020, 12, 3575.	3.7	23
70	Oxidative Stress-Inducing Anticancer Therapies: Taking a Closer Look at Their Immunomodulating Effects. <i>Antioxidants</i> , 2020, 9, 1188.	5.1	36
71	Arc plasma reactor modification for enhancing performance of dry reforming of methane. <i>Journal of CO₂ Utilization</i> , 2020, 42, 101352.	6.8	26
72	Advances in Plasma Oncology toward Clinical Translation. <i>Cancers</i> , 2020, 12, 3283.	3.7	3

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73	Plasma-Based CO ₂ Conversion: To Quench or Not to Quench?. Journal of Physical Chemistry C, 2020, 124, 18401-18415.	3.1	43
74	Predicted Hotspot Residues Involved in Allosteric Signal Transmission in Pro-Apoptotic Peptide-Mcl1 Complexes. Biomolecules, 2020, 10, 1114.	4.0	3
75	Modeling the CO ₂ dissociation in pulsed atmospheric-pressure discharge. Journal of Physics: Conference Series, 2020, 1492, 012007.	0.4	0
76	How do nitrated lipids affect the properties of phospholipid membranes?. Archives of Biochemistry and Biophysics, 2020, 695, 108548.	3.0	10
77	Towards Green Ammonia Synthesis through Plasma-Driven Nitrogen Oxidation and Catalytic Reduction. Angewandte Chemie, 2020, 132, 24033-24037.	2.0	20
78	Towards Green Ammonia Synthesis through Plasma-Driven Nitrogen Oxidation and Catalytic Reduction. Angewandte Chemie - International Edition, 2020, 59, 23825-23829.	13.8	58
79	Plasma-driven catalysis: green ammonia synthesis with intermittent electricity. Green Chemistry, 2020, 22, 6258-6287.	9.0	163
80	Critical Evaluation of the Interaction of Reactive Oxygen and Nitrogen Species with Blood to Inform the Clinical Translation of Nonthermal Plasma Therapy. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-10.	4.0	6
81	On the Anti-Cancer Effect of Cold Atmospheric Plasma and the Possible Role of Catalase-Dependent Apoptotic Pathways. Cells, 2020, 9, 2330.	4.1	16
82	Effect of plasma-induced oxidative stress on the glycolysis pathway of Escherichia coli. Computers in Biology and Medicine, 2020, 127, 104064.	7.0	4
83	Plasma-Catalytic Ammonia Synthesis beyond the Equilibrium Limit. ACS Catalysis, 2020, 10, 6726-6734.	11.2	78
84	The Potential Use of Core-Shell Structured Spheres in a Packed-Bed DBD Plasma Reactor for CO ₂ Conversion. Catalysts, 2020, 10, 530.	3.5	9
85	The penetration of reactive oxygen and nitrogen species across the stratum corneum. Plasma Processes and Polymers, 2020, 17, 2000005.	3.0	20
86	Plasma-catalytic dry reforming of methane: Screening of catalytic materials in a coaxial packed-bed DBD reactor. Chemical Engineering Journal, 2020, 397, 125519.	12.7	52
87	Plasma-Based N ₂ Fixation into NO _x : Insights from Modeling toward Optimum Yields and Energy Costs in a Gliding Arc Plasmatron. ACS Sustainable Chemistry and Engineering, 2020, 8, 9711-9720.	6.7	88
88	Activation of CO ₂ on Copper Surfaces: The Synergy between Electric Field, Surface Morphology, and Excess Electrons. Journal of Physical Chemistry C, 2020, 124, 6747-6755.	3.1	33
89	Plasma-Based CH ₄ Conversion into Higher Hydrocarbons and H ₂ : Modeling to Reveal the Reaction Mechanisms of Different Plasma Sources. Journal of Physical Chemistry C, 2020, 124, 7016-7030.	3.1	61
90	Multi-dimensional modelling of a magnetically stabilized gliding arc plasma in argon and CO ₂ . Plasma Sources Science and Technology, 2020, 29, 045019.	3.1	8

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91	Dual-vortex plasmatron: A novel plasma source for CO ₂ conversion. Journal of CO ₂ Utilization, 2020, 39, 101152.	6.8	30
92	Predicted Influence of Plasma Activation on Nonoxidative Coupling of Methane on Transition Metal Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 6043-6054.	6.7	38
93	The effect of H ₂ O on the vibrational populations of CO ₂ in a CO ₂ /H ₂ O microwave plasma: a kinetic modelling investigation. Plasma Sources Science and Technology, 2020, 29, 095009.	3.1	7
94	Plasma Technology for CO ₂ Conversion: A Personal Perspective on Prospects and Gaps. Frontiers in Energy Research, 2020, 8, .	2.3	101
95	H ₂ S Decomposition into H ₂ and S ₂ by Plasma Technology: Comparison of Gliding Arc and Microwave Plasma. Plasma Chemistry and Plasma Processing, 2020, 40, 1163-1187.	2.4	13
96	Nitrogen Fixation with Water Vapor by Nonequilibrium Plasma: toward Sustainable Ammonia Production. ACS Sustainable Chemistry and Engineering, 2020, 8, 2996-3004.	6.7	92
97	Zero-dimensional modeling of unpacked and packed bed dielectric barrier discharges: the role of vibrational kinetics in ammonia synthesis. Plasma Sources Science and Technology, 2020, 29, 045020.	3.1	36
98	Influence of osmolytes and ionic liquids on the Bacteriorhodopsin structure in the absence and presence of oxidative stress: A combined experimental and computational study. International Journal of Biological Macromolecules, 2020, 148, 657-665.	7.5	13
99	Parametrization and Molecular Dynamics Simulations of Nitrogen Oxyanions and Oxyacids for Applications in Atmospheric and Biomolecular Sciences. Journal of Physical Chemistry B, 2020, 124, 1082-1089.	2.6	16
100	Modeling plasmas in analytical chemistry—an example of cross-fertilization. Analytical and Bioanalytical Chemistry, 2020, 412, 6059-6083.	3.7	2
101	Structural modification of NADPH oxidase activator (Noxa 1) by oxidative stress: An experimental and computational study. International Journal of Biological Macromolecules, 2020, 163, 2405-2414.	7.5	19
102	CO ₂ and CH ₄ conversion in "real" gas mixtures in a gliding arc plasmatron: how do N ₂ and O ₂ affect the performance?. Green Chemistry, 2020, 22, 1366-1377.	9.0	33
103	The 2020 plasma catalysis roadmap. Journal Physics D: Applied Physics, 2020, 53, 443001.	2.8	362
104	Plasma and Plasma-Cell Interaction Simulations. Springer Series on Atomic, Optical, and Plasma Physics, 2020, , 169-208.	0.2	1
105	OES of a CO ₂ -Ar Microwave Discharge to Support Modelling. , 2020, , .		0
106	White paper on the future of plasma science in environment, for gas conversion and agriculture. Plasma Processes and Polymers, 2019, 16, 1700238.	3.0	104
107	Synergistic Effects of Melittin and Plasma Treatment: A Promising Approach for Cancer Therapy. Cancers, 2019, 11, 1109.	3.7	46
108	Ceramide cross-linking leads to pore formation: Potential mechanism behind CAP enhancement of transdermal drug delivery. Plasma Processes and Polymers, 2019, 16, 1900122.	3.0	4

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109	How membrane lipids influence plasma delivery of reactive oxygen species into cells and subsequent DNA damage: an experimental and computational study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19327-19341.	2.8	28
110	Applications of the COST Plasma Jet: More than a Reference Standard. <i>Plasma</i> , 2019, 2, 316-327.	1.8	30
111	Improving the Energy Efficiency of CO ₂ Conversion in Nonequilibrium Plasmas through Pulsing. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17650-17665.	3.1	33
112	Rational design of an XNA ligase through docking of unbound nucleic acids to toroidal proteins. <i>Nucleic Acids Research</i> , 2019, 47, 7130-7142.	14.5	23
113	Perspectives of Plasma-treated Solutions as Anticancer Drugs. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2019, 19, 436-438.	1.7	14
114	Plasma-Based CO ₂ Conversion. , 2019, , 287-325.		4
115	Molecular dynamics simulations of mechanical stress on oxidized membranes. <i>Biophysical Chemistry</i> , 2019, 254, 106266.	2.8	6
116	ROS from Physical Plasmas: Redox Chemistry for Biomedical Therapy. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-29.	4.0	168
117	Effect of oxidative stress on cystine transportation by xCâ€³/4 antiporter. <i>Archives of Biochemistry and Biophysics</i> , 2019, 674, 108114.	3.0	7
118	Cold Atmospheric Plasma-Treated PBS Eliminates Immunosuppressive Pancreatic Stellate Cells and Induces Immunogenic Cell Death of Pancreatic Cancer Cells. <i>Cancers</i> , 2019, 11, 1597.	3.7	77
119	Risk Assessment of kINPen Plasma Treatment of Four Human Pancreatic Cancer Cell Lines with Respect to Metastasis. <i>Cancers</i> , 2019, 11, 1237.	3.7	40
120	Influence of Cell Type and Culture Medium on Determining Cancer Selectivity of Cold Atmospheric Plasma Treatment. <i>Cancers</i> , 2019, 11, 1287.	3.7	81
121	Atmospheric pressure glow discharge for CO ₂ conversion: Model-based exploration of the optimum reactor configuration. <i>Chemical Engineering Journal</i> , 2019, 362, 830-841.	12.7	50
122	Reaction of chloride anion with atomic oxygen in aqueous solutions: can cold plasma help in chemistry research?. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4117-4121.	2.8	28
123	Combining CO ₂ conversion and N ₂ fixation in a gliding arc plasmatron. <i>Journal of CO₂ Utilization</i> , 2019, 33, 121-130.	6.8	28
124	Transport of Reactive Oxygen and Nitrogen Species across Aquaporin: A Molecular Level Picture. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-11.	4.0	32
125	Reactivity and stability of plasma-generated oxygen and nitrogen species in buffered water solution: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12881-12894.	2.8	55
126	Removal of alachlor in water by non-thermal plasma: Reactive species and pathways in batch and continuous process. <i>Water Research</i> , 2019, 161, 549-559.	11.3	41

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127	How process parameters and packing materials tune chemical equilibrium and kinetics in plasma-based CO ₂ conversion. <i>Chemical Engineering Journal</i> , 2019, 372, 1253-1264.	12.7	56
128	Nanosecond Pulsed Discharge for CO ₂ Conversion: Kinetic Modeling To Elucidate the Chemistry and Improve the Performance. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12104-12116.	3.1	48
129	Burning questions of plasma catalysis: Answers by modeling. <i>Catalysis Today</i> , 2019, 337, 3-14.	4.4	62
130	Plasma for cancer treatment: How can RONS penetrate through the cell membrane? Answers from computer modeling. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 253-263.	4.4	27
131	Hydrogenation of Carbon Dioxide to Value-Added Chemicals by Heterogeneous Catalysis and Plasma Catalysis. <i>Catalysts</i> , 2019, 9, 275.	3.5	116
132	Oxidation destabilizes toxic amyloid beta peptide aggregation. <i>Scientific Reports</i> , 2019, 9, 5476.	3.3	33
133	Suppressing the formation of NO _x and N ₂ O in CO ₂ /N ₂ dielectric barrier discharge plasma by adding CH ₄ : scavenger chemistry at work. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1388-1395.	4.9	10
134	Transport of cystine across xCa ²⁺ antiporter. <i>Archives of Biochemistry and Biophysics</i> , 2019, 664, 117-126.	3.0	10
135	Editorial Catalysts: Special Issue on Plasma Catalysis. <i>Catalysts</i> , 2019, 9, 196.	3.5	5
136	A 2D model of a gliding arc discharge for CO ₂ conversion. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	6
137	Non-thermal Plasma as a Unique Delivery System of Short-Lived Reactive Oxygen and Nitrogen Species for Immunogenic Cell Death in Melanoma Cells. <i>Advanced Science</i> , 2019, 6, 1802062.	11.2	177
138	CO ₂ Activation on TiO ₂ -Supported Cu ₅ and Ni ₅ Nanoclusters: Effect of Plasma-Induced Surface Charging. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6516-6525.	3.1	27
139	Modifying the Tumour Microenvironment: Challenges and Future Perspectives for Anticancer Plasma Treatments. <i>Cancers</i> , 2019, 11, 1920.	3.7	56
140	28. Plasma-based CO ₂ conversion. , 2019, , 585-634.		5
141	Characterization of a nitrogen gliding arc plasmatron using optical emission spectroscopy and high-speed camera. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 065201.	2.8	30
142	Altering Conversion and Product Selectivity of Dry Reforming of Methane in a Dielectric Barrier Discharge by Changing the Dielectric Packing Material. <i>Catalysts</i> , 2019, 9, 51.	3.5	40
143	Plasma Catalysis Modeling. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2019, , 69-114.	0.2	0
144	Propagation of a plasma streamer in catalyst pores. <i>Plasma Sources Science and Technology</i> , 2018, 27, 035009.	3.1	56

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145	Enhancement of cellular glucose uptake by reactive species: a promising approach for diabetes therapy. RSC Advances, 2018, 8, 9887-9894.	3.6	12
146	High Coke Resistance of a TiO ₂ Anatase (001) Catalyst Surface during Dry Reforming of Methane. Journal of Physical Chemistry C, 2018, 122, 9389-9396.	3.1	7
147	Atomic scale simulation of H ₂ O ₂ permeation through aquaporin: toward the understanding of plasma cancer treatment. Journal Physics D: Applied Physics, 2018, 51, 125401.	2.8	42
148	Foundations of modelling of nonequilibrium low-temperature plasmas. Plasma Sources Science and Technology, 2018, 27, 023002.	3.1	92
149	Transport and accumulation of plasma generated species in aqueous solution. Physical Chemistry Chemical Physics, 2018, 20, 6845-6859.	2.8	112
150	Modeling Plasma-based CO ₂ and CH ₄ Conversion in Mixtures with N ₂ , O ₂ , and H ₂ O: The Bigger Plasma Chemistry Picture. Journal of Physical Chemistry C, 2018, 122, 8704-8723.	3.1	111
151	Effect of plasma-induced surface charging on catalytic processes: application to CO ₂ activation. Plasma Sources Science and Technology, 2018, 27, 024001.	3.1	51
152	Streamer propagation in a packed bed plasma reactor for plasma catalysis applications. Chemical Engineering Journal, 2018, 334, 2467-2479.	12.7	141
153	Combining experimental and modelling approaches to study the sources of reactive species induced in water by the COST RF plasma jet. Physical Chemistry Chemical Physics, 2018, 20, 2797-2808.	2.8	59
154	A packed-bed DBD micro plasma reactor for CO ₂ dissociation: Does size matter?. Chemical Engineering Journal, 2018, 348, 557-568.	12.7	115
155	Investigation of plasma-induced chemistry in organic solutions for enhanced electrospun PLA nanofibers. Plasma Processes and Polymers, 2018, 15, 1700226.	3.0	42
156	Enhancement of plasma generation in catalyst pores with different shapes. Plasma Sources Science and Technology, 2018, 27, 055008.	3.1	26
157	Modelling of plasma-based dry reforming: how do uncertainties in the input data affect the calculation results?. Journal Physics D: Applied Physics, 2018, 51, 204003.	2.8	24
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