

Maksudbek Yusupov

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,463
citations

279701

23
h-index

330025

37
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48
all docs

48
docs citations

48
times ranked

1492
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma-Induced Destruction of Bacterial Cell Wall Components: A Reactive Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5993-5998.	1.5	136
2	Synergistic effect of electric field and lipid oxidation on the permeability of cell membranes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 839-847.	1.1	116
3	Reactive molecular dynamics simulations of oxygen species in a liquid water layer of interest for plasma medicine. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 025205.	1.3	97
4	Effect of head group and lipid tail oxidation in the cell membrane revealed through integrated simulations and experiments. <i>Scientific Reports</i> , 2017, 7, 5761.	1.6	88
5	Atomic-scale simulations of reactive oxygen plasma species interacting with bacterial cell walls. <i>New Journal of Physics</i> , 2012, 14, 093043.	1.2	77
6	A comparative study for the inactivation of multidrug resistance bacteria using dielectric barrier discharge and nano-second pulsed plasma. <i>Scientific Reports</i> , 2015, 5, 13849.	1.6	73
7	Mechanism and comparison of needle-type non-thermal direct and indirect atmospheric pressure plasma jets on the degradation of dyes. <i>Scientific Reports</i> , 2016, 6, 34419.	1.6	71
8	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.	2.7	64
9	Reactive Molecular Dynamics Simulations for a Better Insight in Plasma Medicine. <i>Plasma Processes and Polymers</i> , 2014, 11, 1156-1168.	1.6	48
10	Inactivation of the Endotoxic Biomolecule Lipid A by Oxygen Plasma Species: A Reactive Molecular Dynamics Study. <i>Plasma Processes and Polymers</i> , 2015, 12, 162-171.	1.6	43
11	Atomic scale simulation of H ₂ O ₂ permeation through aquaporin: toward the understanding of plasma cancer treatment. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 125401.	1.3	42
12	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.	3.9	41
13	Computer simulations of plasma-biomolecule and plasma-tissue interactions for a better insight in plasma medicine. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 293001.	1.3	39
14	Detection of CO ₂ using CNT-based sensors: Role of Fe catalyst on sensitivity and selectivity. <i>Materials Chemistry and Physics</i> , 2017, 186, 353-364.	2.0	33
15	Oxidation destabilizes toxic amyloid beta peptide aggregation. <i>Scientific Reports</i> , 2019, 9, 5476.	1.6	33
16	Atomic scale understanding of the permeation of plasma species across native and oxidized membranes. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 365203.	1.3	32
17	Transport of Reactive Oxygen and Nitrogen Species across Aquaporin: A Molecular Level Picture. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-11.	1.9	32
18	The effect of reactive oxygen and nitrogen species on the structure of cytoglobin: A potential tumor suppressor. <i>Redox Biology</i> , 2018, 19, 1-10.	3.9	31

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19	Structural modification of the skin barrier by OH radicals: a reactive molecular dynamics study for plasma medicine. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 155202.	1.3	30
20	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.	1.3	28
21	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.	2.3	27
22	Multi-level molecular modelling for plasma medicine. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 054002.	1.3	26
23	Impact of plasma oxidation on structural features of human epidermal growth factor. <i>Plasma Processes and Polymers</i> , 2018, 15, 1800022.	1.6	26
24	Oxidation of Innate Immune Checkpoint CD47 on Cancer Cells with Non-Thermal Plasma. <i>Cancers</i> , 2021, 13, 579.	1.7	26
25	The penetration of reactive oxygen and nitrogen species across the stratum corneum. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000005.	1.6	20
26	How do plasma-generated OH radicals react with biofilm components? Insights from atomic scale simulations. <i>Biointerphases</i> , 2015, 10, .	0.6	19
27	Phosphatidylserine flip-flop induced by oxidation of the plasma membrane: a better insight by atomic scale modeling. <i>Plasma Processes and Polymers</i> , 2017, 14, 1700013.	1.6	18
28	Parametrization and Molecular Dynamics Simulations of Nitrogen Oxyanions and Oxyacids for Applications in Atmospheric and Biomolecular Sciences. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1082-1089.	1.2	16
29	Influence of osmolytes and ionic liquids on the Bacteriorhodopsin structure in the absence and presence of oxidative stress: A combined experimental and computational study. <i>International Journal of Biological Macromolecules</i> , 2020, 148, 657-665.	3.6	13
30	Behavior of electrons in a dual-magnetron sputter deposition system: a Monte Carlo model. <i>New Journal of Physics</i> , 2011, 13, 033018.	1.2	12
31	Enhancement of cellular glucose uptake by reactive species: a promising approach for diabetes therapy. <i>RSC Advances</i> , 2018, 8, 9887-9894.	1.7	12
32	Lipid Oxidation: Role of Membrane Phase-Separated Domains. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 2857-2868.	2.5	12
33	Transport of cystine across xCa ²⁺ antiporter. <i>Archives of Biochemistry and Biophysics</i> , 2019, 664, 117-126.	1.4	10
34	How do nitrated lipids affect the properties of phospholipid membranes?. <i>Archives of Biochemistry and Biophysics</i> , 2020, 695, 108548.	1.4	10
35	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.	2.5	9
36	Modeling of plasma and plasma-surface interactions for medical, environmental and nano applications. <i>Journal of Physics: Conference Series</i> , 2012, 399, 012011.	0.3	8

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37	Effect of oxidative stress on cystine transportation by xCâ€³/4 antiporter. Archives of Biochemistry and Biophysics, 2019, 674, 108114.	1.4	7
38	Unraveling the permeation of reactive species across nitrated membranes by computer simulations. Computers in Biology and Medicine, 2021, 136, 104768.	3.9	7
39	Elucidating the asymmetric behavior of the discharge in a dual magnetron sputter deposition system. Applied Physics Letters, 2011, 98, .	1.5	6
40	Molecular dynamics simulations of mechanical stress on oxidized membranes. Biophysical Chemistry, 2019, 254, 106266.	1.5	6
41	Sputter deposition of MgxAlyOzthin films in a dual-magnetron device: a multi-species Monte Carlo model. New Journal of Physics, 2012, 14, 073043.	1.2	4
42	Selective Plasma Oxidation of Ultrasmall Si Nanowires. Journal of Physical Chemistry C, 2016, 120, 472-477.	1.5	4
43	Effect of Mutation and Disulfide Bond Formation on the Catalytic Site of Monomeric Cytochrome c: A Molecular Level Insight. Plasma Medicine, 2021, 11, 41-51.	0.2	4
44	Possible Mechanism of Glucose Uptake Enhanced by Cold Atmospheric Plasma: Atomic Scale Simulations. Plasma, 2018, 1, 119-125.	0.7	3
45	Distribution of lipid aldehydes in phase-separated membranes: A molecular dynamics study. Archives of Biochemistry and Biophysics, 2022, 717, 109136.	1.4	2
46	Plasma and Plasmaâ€“Cell Interaction Simulations. Springer Series on Atomic, Optical, and Plasma Physics, 2020, , 169-208.	0.1	1
47	Growth onset of perylene-based nanocrystals. Uzbekiston Fizika Å¾urnali, 2021, 23, 7-11.	0.0	0