

# CITATION REPORT

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## Molecular dynamics simulation of humic substances

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Chemical and Biological Technologies in Agriculture,  
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#	Paper	IF	Citations
50	Vienna Soil-Organic-Matter Modeler--Generating condensed-phase models of humic substances. <i>Journal of Molecular Graphics and Modelling</i> , <b>2015</b> , 62, 253-261	2.8	26
49	Humic matter elicits proton and calcium fluxes and signaling dependent on Ca <sup>2+</sup> -dependent protein kinase (CDPK) at early stages of lateral plant root development. <i>Chemical and Biological Technologies in Agriculture</i> , <b>2015</b> , 2, 3	4.4	37
48	Humic substances stimulate maize nitrogen assimilation and amino acid metabolism at physiological and molecular level. <i>Chemical and Biological Technologies in Agriculture</i> , <b>2015</b> , 2, 5	4.4	31
47	Interactions between natural organic matter and organic pollutants as revealed by NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , <b>2015</b> , 53, 667-78	2.1	22
46	Metabolic profile and antioxidant responses during drought stress recovery in sugarcane treated with humic acids and endophytic diazotrophic bacteria. <i>Annals of Applied Biology</i> , <b>2016</b> , 168, 203-213	2.6	40
45	Phosphorus speciation and high-affinity transporters are influenced by humic substances. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2016</b> , 179, 206-214	2.3	27
44	Binding affinity of terrestrial and aquatic humics toward organic xenobiotics. <i>Journal of Environmental Chemical Engineering</i> , <b>2016</b> , 4, 498-510	6.8	5
43	Microchemical contaminants as forming agents of anthropogenic soils. <i>Ambio</i> , <b>2017</b> , 46, 109-120	6.5	10
42	Molecular Dynamics Simulations of the Standard Leonardite Humic Acid: Microscopic Analysis of the Structure and Dynamics. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 5414-5424	10.3	52
41	A review on simulation of methane production from gas hydrate reservoirs: Molecular dynamics prospective. <i>Journal of Petroleum Science and Engineering</i> , <b>2017</b> , 159, 754-772	4.4	48
40	Parameterization of a coarse-grained model of cholesterol with point-dipole electrostatics. <i>Journal of Computer-Aided Molecular Design</i> , <b>2018</b> , 32, 1259-1271	4.2	4
39	Molecular simulation of self-assembly. <b>2018</b> , 305-318		14
38	Complexation of quinone species on 2:1 dioctahedral phyllosilicate surfaces. <i>Applied Clay Science</i> , <b>2018</b> , 162, 268-275	5.2	5
37	Humic Substances: Determining Potential Molecular Regulatory Processes in Plants. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 263	6.2	62
36	Effects of Oxidized Brown Coal Humic Acid Fertilizer on the Relative Height Growth Rate of Three Tree Species. <i>Forests</i> , <b>2018</b> , 9, 360	2.8	4
35	Adsorption process of polar and nonpolar compounds in a nanopore model of humic substances. <i>European Journal of Soil Science</i> , <b>2019</b> , 71, 845	3.4	3
34	Molecular dynamics simulation of Y-type nanomotors with different angles in aqueous solution. <i>AIP Advances</i> , <b>2019</b> , 9, 115008	1.5	1

33	Molecular modelling of sorption processes of a range of diverse small organic molecules in Leonardite humic acid. <i>European Journal of Soil Science</i> , <b>2020</b> , 71, 831-844	3.4	9
32	Emergent functional behaviour of humic substances perceived as complex labile aggregates of small organic molecules and oligomers. <i>Environmental Chemistry</i> , <b>2019</b> , 16, 505	3.2	7
31	The Soil Humeome: Chemical Structure, Functions and Technological Perspectives. <b>2019</b> , 183-222		14
30	Adsorption of 5-aminosalicylic acid on kaolinite surfaces at a molecular level. <i>Clay Minerals</i> , <b>2019</b> , 54, 49-56	1.3	1
29	Organic Carbon Sequestration in Soil Humic Substances As Affected by Application of Different Nitrogen Fertilizers in a Vegetable-Rotation Cropping System. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 3106-3113	5.7	8
28	Tensiometric and Rheological Characteristics of Fractions of Humic and Hymatomelanin Acids. <i>Colloid Journal</i> , <b>2019</b> , 81, 779-789	1.1	
27	Coagulation mechanisms of humic acid in metal ions solution under different pH conditions: A molecular dynamics simulation. <i>Science of the Total Environment</i> , <b>2020</b> , 702, 135072	10.2	45
26	A combined first principles and classical molecular dynamics study of clay-soil organic matters (SOMs) interactions. <i>Geochimica Et Cosmochimica Acta</i> , <b>2020</b> , 291, 110-125	5.5	14
25	Humic acid enhances heat stress tolerance via transcriptional activation of Heat-Shock Proteins in Arabidopsis. <i>Scientific Reports</i> , <b>2020</b> , 10, 15042	4.9	12
24	Foulant Adsorption to Heterogeneous Surfaces with Zwitterionic Nanoscale Domains. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 4709-4718	4.3	6
23	Computational Assessment of the Three-Dimensional Configuration of Dissolved Organic Matter Chromophores and Influence on Absorption Spectra. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 15904-15913	10.3	8
22	Sorption of Organic Pollutants by Humic Acids: A Review. <i>Molecules</i> , <b>2020</b> , 25,	4.8	37
21	A 3D soil-like nanostructured fabric for the development of bacterial biofilms for agricultural and environmental uses. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 2546-2572	7.1	6
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19	Glyphosate adsorption onto kaolinite and kaolinite-humic acid composites: Experimental and molecular dynamics studies. <i>Chemosphere</i> , <b>2021</b> , 263, 127979	8.4	19
18	Molecular dynamics simulation of homology modeled glomalin related soil protein ( <i>Rhizophagus irregularis</i> ) complexed with soil organic matter model. <i>Biologia (Poland)</i> , <b>2021</b> , 76, 699-709	1.5	0
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16	Exploring the structure and dynamics of proteins in soil organic matter. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2021</b> , 89, 925	4.2	7

15	Spectral Characteristics Related to Chemical Substructures and Structures Indicative of Organic Precursors from Fulvic Acids in Sediments by NMR and HPLC-ESI-MS. <i>Molecules</i> , <b>2021</b> , 26,	4.8	0
14	Investigation of Surfactant-Membrane Interaction Using Molecular Dynamics Simulation with Umbrella Sampling. <i>ACS ES&amp;T Engineering</i> ,		3
13	Soil organic matter stabilization at molecular scale: The role of metal cations and hydrogen bonds. <i>Geoderma</i> , <b>2021</b> , 401, 115237	6.7	10
12	The effects of humic substances on DNA isolation from soils. <i>PeerJ</i> , <b>2020</b> , 8, e9378	3.1	7
11	Molecular Docking as a Tool to Examine Organic Cation Sorption to Organic Matter.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> , 56, 951-961	10.3	2
10	Soybean Physiological Properties and Grain Quality Responses to Nutrients, and Predicting Nutrient Deficiency Using Chlorophyll Fluorescence. <i>Journal of Soil Science and Plant Nutrition</i> , 1	3.2	0
9	A contribution of molecular modeling to supramolecular structures in soil organic matter#. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2022</b> , 185, 44-59	2.3	2
8	Organic Matter in Riverbank Sediments and Fluvisols from the Flood Zones of Lower Vistula River. <i>Agronomy</i> , <b>2022</b> , 12, 536	3.6	1
7	Value-Added Products From Soil, Brown Coal, and Composted City Solid Waste. <i>Frontiers in Sustainable Food Systems</i> , <b>2021</b> , 5,	4.8	
6	Quantitative assessment of the contribution of soil organic matter functional groups and heteroatoms to PAHs adsorption based on the COSMO-RS model. <i>Science of the Total Environment</i> , <b>2022</b> , 157415	10.2	0
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