

Nico De Koker

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4794643/publications.pdf>

Version: 2024-02-01

34
papers

1,415
citations

567281

15
h-index

501196

28
g-index

35
all docs

35
docs citations

35
times ranked

1341
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of ice impact load threshold exceedance in the propulsion shaft of an ice-faring vessel via Bayesian inversion. <i>Structural Health Monitoring</i> , 2022, 21, 757-769.	7.5	5
2	Site or regional design wind speeds?. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2022, 220, 104829.	3.9	0
3	Optimal multi-parameter sampling for geosstructural design. <i>Structural Safety</i> , 2022, 96, 102194.	5.3	0
4	The value of data from construction project site meeting minutes in predicting project duration. <i>Built Environment Project and Asset Management</i> , 2022, ahead-of-print, .	1.6	0
5	Spectral inversion for ice-induced propeller moments from measurements on the propulsion shaft of a polar research vessel. <i>Mechanical Systems and Signal Processing</i> , 2022, 173, 108982.	8.0	1
6	Preconditioning wind speeds for standardised structural design. <i>Engineering Structures</i> , 2021, 238, 111856.	5.3	3
7	Risk-optimal sampling for reliability-based design. <i>Structural Safety</i> , 2020, 83, 101896.	5.3	2
8	Implementation of the fire beam element method into OpenSees for the analysis of structures in fire. <i>Advances in Structural Engineering</i> , 2020, 23, 3239-3250.	2.4	1
9	20 Dwelling Large-Scale Experiment of Fire Spread in Informal Settlements. <i>Fire Technology</i> , 2020, 56, 1599-1620.	3.0	21
10	Assessment of reliability-based design of stable slopes. <i>Canadian Geotechnical Journal</i> , 2019, 56, 495-504.	2.8	11
11	Reliability analysis of EN 1997 design approaches for eccentrically loaded footings. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2019, 172, 113-120.	1.6	2
12	Resistivity saturation in liquid iron–light-element alloys at conditions of planetary cores from first principles computations. <i>Comptes Rendus - Geoscience</i> , 2019, 351, 154-162.	1.2	17
13	Saturation and negative temperature coefficient of electrical resistivity in liquid iron-sulfur alloys at high densities from first-principles calculations. <i>Physical Review B</i> , 2018, 97, .	3.2	18
14	Assessment of reliability-based design for a spectrum of geotechnical design problems. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2018, 171, 147-159.	1.6	9
15	Passing in multi-lane, heterogeneous traffic: Part 2, simulation. <i>Procedia Computer Science</i> , 2018, 130, 773-778.	2.0	2
16	Passing in multi-lane, heterogeneous traffic: Part 1, parameterisation. <i>Procedia Computer Science</i> , 2018, 130, 767-772.	2.0	0
17	Risk-based member reliability in structural design. <i>Journal of the South African Institution of Civil Engineering</i> , 2018, 60, .	0.3	0
18	Combining accelerometer data and contextual variables to evaluate the risk of driver behaviour. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2016, 41, 80-96.	3.7	44

#	ARTICLE	IF	CITATIONS
19	Mantle dynamics with pressure- and temperature-dependent thermal expansivity and conductivity. <i>Physics of the Earth and Planetary Interiors</i> , 2013, 217, 48-58.	1.9	76
20	Thermodynamics of the MgO-SiO ₂ liquid system in Earth's lowermost mantle from first principles. <i>Earth and Planetary Science Letters</i> , 2013, 361, 58-63.	4.4	83
21	Electrical resistivity and thermal conductivity of liquid Fe alloys at high <i>P</i> and <i>T</i> , and heat flux in Earth's core. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4070-4073.	7.1	268
22	Electrical and thermal conductivity of Al liquid at high pressures and temperatures from <i>ab initio</i> computations. <i>Physical Review B</i> , 2012, 85, .	3.2	37
23	Melting of cubic boron nitride at extreme pressures. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 055401.	1.8	6
24	The effects of lithospheric thickness and density structure on Earth's stress field. <i>Geophysical Journal International</i> , 2012, 188, 1-17.	2.4	50
25	Thermodynamics, diffusion and structure of NaAlSi ₂ O ₆ liquid at mantle conditions: A first-principles molecular dynamics investigation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	13
26	Thermal conductivity of CaGeO ₃ perovskite at high pressure. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	11
27	Lattice thermal conductivity of lower mantle minerals and heat flux from Earth's core. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17901-17904.	7.1	103
28	Structure, thermodynamics, and diffusion in CaAl ₂ Si ₂ O ₈ liquid from first-principles molecular dynamics. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5657-5671.	3.9	59
29	Thermal conductivity of MgO periclase at high pressure: Implications for the D ³ region. <i>Earth and Planetary Science Letters</i> , 2010, 292, 392-398.	4.4	90
30	Theoretical Computation of Diffusion in Minerals and Melts. <i>Reviews in Mineralogy and Geochemistry</i> , 2010, 72, 971-996.	4.8	17
31	Self-consistent thermodynamic description of silicate liquids, with application to shock melting of MgO periclase and MgSiO ₃ perovskite. <i>Geophysical Journal International</i> , 2009, 178, 162-179.	2.4	130
32	Thermal Conductivity of MgO Periclase from Equilibrium First Principles Molecular Dynamics. <i>Physical Review Letters</i> , 2009, 103, 125902.	7.8	145
33	Thermodynamics of silicate liquids in the deep Earth. <i>Earth and Planetary Science Letters</i> , 2009, 278, 226-232.	4.4	191
34	Insulation Resistance Time Reference Curves for Specifying Passive Fire Protection for Modular Structures from Shipping Containers. <i>Fire Technology</i> , 0, , 1.	3.0	0