Evgeny Apfelbaum

List of Publications by Year
in descending order

57	910	394421 19	501196 28
papers	citations	h-index	g-index

58	58	58	275
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Correspondence between the Critical and the Zeno-Line Parameters for Classical and Quantum Liquids. Journal of Physical Chemistry B, 2009, 113, 3521-3526.	2.6	80
2	A wide-range model for simulation of pump-probe experiments with metals. Applied Surface Science, 2012, 258, 9480-9483.	6.1	75
3	The confirmation of the critical point-Zeno-line similarity set from the numerical modeling data for different interatomic potentials. Journal of Chemical Physics, 2009, 130, 214111.	3.0	53
4	Triangle of Liquidâ˜’Gas States. Journal of Physical Chemistry B, 2006, 110, 8474-8480.	2.6	45
5	The Wide-Range Method to Construct the Entire Coexistence Liquidâ€“Gas Curve and to Determine the Critical Parameters of Metals. Journal of Physical Chemistry B, 2015, 119, 11825-11832.	2.6	31
6	A New Similarity Found from the Correspondence of the Critical and Zeno-Line Parameters. Journal of Physical Chemistry B, 2008, 112, 13064-13069.	2.6	30
7	The predictions of the critical point parameters for Al, Cu and W found from the correspondence between the critical point and unit compressibility line (Zeno line) positions. Chemical Physics Letters, 2009, 467, 318-322.	2.6	28
8	Calculation of electronic transport coefficients of Ag and Au plasma. Physical Review E, 2011, 84, 066403.	2.1	27
9	The Zeno Line for Al, Cu, and U. Journal of Physical Chemistry B, 2016, 120, 4828-4833.	2.6	27
10	Regarding the Universality of Some Consequences of the van der Waals Equation in the Supercritical Domain. Journal of Physical Chemistry B, 2013, 117, 7750-7755.	2.6	26
11	Estimate of Beryllium Critical Point on the Basis of Correspondence between the Critical and the Zeno-Line Parameters. Journal of Physical Chemistry B, 2012, 116, 14660-14666.	2.6	25
12	The unit compressibility factor and critical parameters of mercury. Chemical Physics Letters, 2005, 413, 342-345.	2.6	23
13	Regarding the Theory of the Zeno Line. Journal of Physical Chemistry A, 2008, 112, 6042-6044.	2.5	22
14	The calculation of Cs and Rb conductivities in the region of liquidâ€“plasma transition. Physics and Chemistry of Liquids, 2010, 48, 534-545.	1.2	22
15	The calculation of electronic transport coefficients of metals in the process of transition from liquid to plasma. Journal of Physics A, 2006, 39, 4407-4410.	1.6	20
16	The Electron Transport Coefficients of Boron and Silicon Plasma. Contributions To Plasma Physics, 2013, 53, 317-325.	1.1	20
17	The calculation of thermophysical properties of nickel plasma. Physics of Plasmas, 2015, 22, .	1.9	20
18	The Similarity Relations Set on the Basis of Symmetrization of the Liquidâ€“Vapor Phase Diagram. Journal of Physical Chemistry B, 2015, 119, 8419-8424.	2.6	20

#	Article	IF	Citations
19	The generalized scaling laws based on some deductions from the van der Waals equation. High Temperature, 2016, 54, 175-185.	1.0	20
20	Virial Expansion Providing of the Linearity for a Unit Compressibility Factor. Journal of Physical Chemistry A, 2004, 108, 10381-10385.	2.5	17
21	The calculation of vapor-liquid coexistence curve of Morse fluid: Application to iron. Journal of Chemical Physics, 2011, 134, 194506.	3.0	17
22	Regarding convergence curve of virial expansion for the Lennard-Jones system. Journal of Chemical Physics, 2007, 127, 064507.	3.0	15
23	The Calculations of Ar and Xe Conductivity Under High Pressures. Contributions To Plasma Physics, 2011, 51, 395-400.	1.1	15
24	The Thermophysical Properties of Iron Plasma. Contributions To Plasma Physics, 2016, 56, 176-186.	1.1	15
25	Calculation of thermophysical properties of titanium and zinc plasmas. High Temperature, 2017, 55, 1-11.	1.0	15
26	The calculations of thermophysical properties of molybdenum plasma. Physics of Plasmas, 2017, 24, 052702.	1.9	14
27	Systematization of the Critical Parameters of Substances due to Their Connection with Heat of Evaporation and Boyle Temperature. International Journal of Thermophysics, 2020, 41, 1.	2.1	14
28	Correspondence between Thermodynamics of Lattice Models and Real Substances at the Liquidâ^'Gas Domain of the Phase Diagram. Journal of Physical Chemistry B, 2010, 114, 9820-9826.	2.6	12
29	One model of electric conduction and electric field distributions in a liquid insulator. Journal of Electrostatics, 2001, 50, 129-142.	1.9	11
30	Calculations of Electrical Conductivity of Ag and Au Plasma. Contributions To Plasma Physics, 2012, 52, 41-44.	1.1	11
31	Note: The universal relations for the critical point parameters. Journal of Chemical Physics, 2013, 139, 046101.	3.0	9
32	The Similarity Law for the Jouleâ€"Thomson Inversion Line. Journal of Physical Chemistry B, 2014, 118, 12239-12242.	2.6	9
33	The application of the Zeno line similarities to alkaline earth metals. Journal of Molecular Liquids, 2017, 235, 149-154.	4.9	9
34	Similarity Laws for the Lines of Ideal Free Energy and Chemical Potential in Supercritical Fluids. Journal of Physical Chemistry B, 2017, 121, 8802-8808.	2.6	8
35	The Zeno line and binodal for Ga. Journal of Molecular Liquids, 2018, 263, 237-242.	4.9	8
36	The Line of the Unit Compressibility Factor (Zeno-Line) for Crystal States. Journal of Physical Chemistry B, 2020, 124, 5021-5027.	2.6	8

#	Article	IF	Citations
37	The calculation of the metal transport coefficients in warm dense matter. European Physical Journal D, 2006, 56, B618-B623.	0.4	7
38	The reconstruction of the effective interaction potential on the base of pair correlation function measurements in dusty plasma. Physics of Plasmas, 2007, 14, 123703.	1.9	7
39	The pressure, internal energy, and conductivity of tantalum plasma. Contributions To Plasma Physics, 2017, 57, 479-485.	1.1	7
40	On the determination of the particle interaction potential in a dusty plasma from a pair correlation function. JETP Letters, 2009, 90, 332-335.	1.4	6
41	Connection between the Isobaric Thermal Expansion Coefficient with the Zeno-Line and Critical-Point Parameters for Liquids. Journal of Physical Chemistry B, 2011, 115, 10049-10053.	2.6	6
42	The saturation pressure for different objects in reduced variables and the justification of some empirical relations set from the van der Waals equation. Chemical Physics Letters, 2014, 591, 212-215.	2.6	6
43	The calculations of thermophysical properties of low-temperature carbon plasma. Physics of Plasmas, 2018, 25, .	1.9	6
44	The calculations of thermophysical properties of low-temperature gallium plasma. Physics of Plasmas, 2020, 27, .	1.9	6
45	Calculation of transport coefficients with allowance for the chemical composition of a low-temperature high-density metal plasma. Plasma Physics Reports, 2001, 27, 76-81.	0.9	5
46	Deviations from the Wiedemannâ€'Franz Law in Partially Ionized Metal Plasma. High Temperature, 2018, 56, 609-612.	1.0	5
47	The thermophysical properties of lowâ€temperature Pb plasma. Contributions To Plasma Physics, 2019, 59, e201800148.	1.1	5
48	Modified Virial Expansion and the Equation of State. Russian Journal of Mathematical Physics, 2021, 28, 147-155.	1.5	5
49	Calculations of the thermophysical properties of lowâ€temperature Pb plasma at low densities. Contributions To Plasma Physics, 0, , e202100063.	1.1	4
50	The ideal lines on the phase diagrams of liquids in 2D space. Journal of Molecular Liquids, 2021, 334, 116088.	4.9	4
51	A New Similarity between the Critical and Zeno-line Parameters. Ukrainian Journal of Physics, 2022, 56, 838.	0.2	4
52	Universal triangle of states for liquid and vapor. Journal of Structural Chemistry, 2006, 47, S109-S118.	1.0	2
53	The Line of Ideal Isothermal Compressibility. Journal of Physical Chemistry B, 2022, 126, 2912-2920.	2.6	2
54	The interaction potential reconstruction in the dusty plasma and the influence of the trap. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 214024.	2.1	1

#	Article	IF	Citations
55	Dielectric catastrophe and insulator-conductor transition. Europhysics Letters, 2012, 97, 15004.	2.0	1
56	The model of conduction and electric field distribution in the liquid isolator. , 0, , .		0
57	Altitude and formation conditions of noctilucent clouds in the Earth atmosphere. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 764-768.	2.1	0