

# Vladyslav F Kharchenko

## List of Publications by Year in descending order

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38  
papers

473  
citations

759233

12  
h-index

677142

22  
g-index

39  
all docs

39  
docs citations

39  
times ranked

58  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical solutions for three-dimensional Coulomb transition matrix at negative energy and integer values of interaction parameter. Canadian Journal of Physics, 2020, 98, 375-378.	1.1	0
2	Partial wave off-shell Coulomb amplitudes at excited-state energy. Canadian Journal of Physics, 2018, 96, 933-937.	1.1	1
3	Solution of the Lippmann-Schwinger Equation for a Partial Wave Transition Matrix with Repulsive Coulomb Interaction. Ukrainian Journal of Physics, 2017, 62, 263-270.	0.2	3
4	Analytical expressions for partial wave two-body Coulomb transition matrices at ground-state energy. Annals of Physics, 2016, 374, 16-26.	2.8	3
5	Analytical transition-matrix treatment of electric multipole polarizabilities of hydrogen-like atoms. Annals of Physics, 2015, 355, 153-169.	2.8	5
6	DEUTERON ELECTRIC QUADRUPOLE AND OCTUPOLE POLARIZABILITIES. International Journal of Modern Physics E, 2013, 22, 1350031.	1.0	2
7	Electric Multipole Polarizabilities of Quantum Bound Systems in the Transition Matrix Formalism. Journal of Modern Physics, 2013, 04, 99-107.	0.6	6
8	ELECTRIC DIPOLE POLARIZABILITIES OF THE TRITON AND LAMBDA HYPERTRITON. International Journal of Modern Physics E, 2010, 19, 225-242.	1.0	4
9	PENETRATION THROUGH THE GAMOW BARRIER OF A TWO-FRAGMENT NUCLEUS IN THE THREE-BODY APPROACH. International Journal of Modern Physics E, 2006, 15, 1291-1316.	1.0	1
10	Coulomb effects in the proton-deuteron scattering and radiative capture processes at zero energy. Nuclear Physics A, 1993, 552, 378-400.	1.5	5
11	Direct calculation of the proton-deuteron scattering lengths with the explicit removal of the long-range polarization interaction. Nuclear Physics A, 1990, 512, 294-316.	1.5	2
12	Three-body treatment of Coulomb effects in the problem of long-range effective interactions. Few-Body Systems, 1989, 6, 45-61.	1.5	6
13	Non-perturbative theory of the polarization interaction in three-body systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 199, 1-4.	4.1	10
14	On the long-range interaction between charged particle and neutral two-particle atom in three-body theory. Journal of Physics B: Atomic and Molecular Physics, 1985, 18, 949-953.	1.6	6
15	Integral equations for four strongly interacting particles, two of which are charged. European Physical Journal D, 1984, 34, 175-190.	0.4	0
16	The analytical expression for the two-particle Coulomb Green's function with explicitly separated singularities. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, 1319-1322.	1.6	12
17	Three-particle dynamics in the case of finite-range forces. Zeitschrift für Physik A, 1982, 304, 343-345.	1.4	1
18	Further reduction of the three-body problem with finite-range forces. Nuclear Physics A, 1982, 386, 493-524.	1.5	1

#	ARTICLE	IF	CITATIONS
19	Three-particle scattering at high energies in a model with eikonal Hamiltonian. Annals of Physics, 1981, 135, 356-372.	2.8	1
20	Analytic solution to the problem of three-particle collisions in a model with eikonal Hamiltonian. Theoretical and Mathematical Physics(Russian Federation), 1981, 47, 324-334.	0.9	0
21	Four-nucleon problem in the integral equation approach. Nuclear Physics A, 1980, 343, 249-294.	1.5	3
22	Angular momentum reduction in the four-body problem. European Physical Journal D, 1977, 27, 255-279.	0.4	2
23	Integral equations for three particles in the boundary condition model. Theoretical and Mathematical Physics(Russian Federation), 1977, 31, 328-337.	0.9	1
24	n-3 H and n-3 He scattering as a four-body problem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1976, 60, 317-320.	4.1	29
25	Solutions of the integral equations for four identical particles. Nuclear Physics A, 1974, 226, 71-92.	1.5	17
26	Integral equations for four identical particles with separable two-particle interactions. European Physical Journal D, 1974, 24, 1071-1090.	0.4	2
27	The bateman method and algebraic solution of the three-nucleon integral equations. Nuclear Physics A, 1972, 188, 609-631.	1.5	16
28	Integral equations for four identical particles. Nuclear Physics A, 1972, 183, 606-624.	1.5	46
29	Bound states in a system of four identical particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1972, 42, 328-330.	4.1	21
30	THEORY OF THE FOUR-PARTICLE SYSTEM WITH PAIR INTERACTIONS. , 1972, , 663-666.		1
31	Short-range nucleon-nucleon repulsion and low-energy three-nucleon parameters. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1971, 37, 131-134.	4.1	9
32	BOUND STATES AND SCATTERING IN A SYSTEM OF THREE PARTICLES. Uspekhi Fizicheskikh Nauk, 1971, 14, 125-153.	0.3	17
33	On the solution of the three-particle integral equations by the separable expansion method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1970, 32, 19-22.	4.1	11
34	Treatment of the three-nucleon problem based on the separable expansion of the two-particle t-matrix. Nuclear Physics A, 1969, 137, 417-436.	1.5	25
35	The three-nucleon problem with the square-well potential. Nuclear Physics A, 1969, 137, 437-444.	1.5	21
36	The separable representation of the two-particle t - matrix and the three - nucleon problem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1968, 28, 308-312.	4.1	27

#	ARTICLE	IF	CITATIONS
37	On the effect of the two-nucleon potential shape on the neutron-deuteron scattering lengths. Physics Letters, 1966, 21, 54-57.	2.1	19
38	On the binding and scattering of the three-nucleon system. Nuclear Physics (journal), 1963, 49, 15-28.	1.9	108