Istvan Nagy

List of Publications by Year
in descending order

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69	486	840776 11	794594 19
papers	citations	h-index	g-index

69	69	69	393
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energy loss of slow ions in a nonuniform electron gas. Physical Review B, 2003, 67, .	3.2	55
2	Measures of spatial entanglement in a two-electron model atom. Physical Review A, 2009, 79, .	2.5	42
3	Game Theoretic Approach for Achieving Optimum Overall Efficiency in DC/DC Converters. IEEE Transactions on Industrial Electronics, 2014, 61, 3202-3209.	7.9	33
4	Multiple summation inequalities and their application to stability analysis of discrete-time delay systems. Journal of the Franklin Institute, 2017, 354, 123-144.	3.4	33
5	A Voltage Space Vector Diagram Formed by Nineteen Concentric Dodecagons for Medium-Voltage Induction Motor Drive. IEEE Transactions on Industrial Electronics, 2015, 62, 6748-6755.	7.9	19
6	Short-range correlation in an electron gas: A scattering approach. Physical Review B, 2003, 67, .	3.2	15
7	Mean free path of a suddenly created fast electron moving in a degenerate electron gas. Physical Review B, 2012, 85, .	3.2	15
8	Timing Calculations for a General N-Level Dodecagonal Space Vector Structure Using Only Reference Phase Voltages. IEEE Transactions on Industrial Electronics, 2016, 63, 1395-1403.	7.9	15
9	Exact evaluation of entropic quantities in a solvable two-particle model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2317-2319.	2.1	14
10	Approximations for the interparticle interaction energy in an exactly solvable two-electron model atom. Physical Review A, 2010, 81, .	2.5	12
11	Metric measures of interparticle interaction in an exactly solvable two-electron model atom. Physical Review A, 2011, 84, .	2.5	12
12	Relaxation rate of excited electrons in metals: A nonperturbative calculation based on kinetic theory. Physical Review B, 2000, 63, .	3.2	10
13	Stopping Power of an Electron Gas for Heavy Unit Charges: Models in the Kinetic Approximation. Advances in Quantum Chemistry, 2004, 46, 267-291.	0.8	10
14	Exact time evolution of the pair distribution function for an entangled two-electron initial state. Physical Review A, 2012, 86, .	2.5	10
15	State space control of quadratic boost converter using LQR and LQG approaches. , 2015, , .		10
16	Role of the bound-state wave function in capture-loss rates: Slow proton in an electron gas. Physical Review A, 2003, 68, .	2.5	9
17	Spin-resolved pair-distribution functions in an electron gas: A scattering approach based on consistent potentials. Physical Review B, 2004, 69, .	3.2	9
18	Calculation of pair correlations in a high-density electron gas: Constraints for effective interparticle potentials. Physical Review B, 2005, 72, .	3.2	9

#	Article	IF	Citations
19	Relaxation of excited electrons in a paramagnetic electron gas: The role of spins in screening and scattering. Physical Review B, 2001, 64, .	3.2	8
20	Virtual laboratory for combined solar energy system. , 2007, , .		8
21	Parallel DC/DC converters with multi-agent based multi-objective optimization for consumer electronics. , 2011, , .		8
22	A hybrid seven level inverter topology with a single DC supply and reduced switch count. , 2015, , .		8
23	Numerical study of bound states for point charges shielded by the response of a homogeneous two-dimensional electron gas. Physical Review B, 2006, 74, .	3.2	7
24	DC components and subharmonics generated by naturally sampled PWM techniques. , 2012, , .		7
25	Relaxation of excited electrons in an electron gas: A mean-field approach with charge and spin polarizations. Physical Review B, 2002, 65, .	3.2	6
26	Transport cross sections based on a screened interaction potential: Comparison of classical and quantum-mechanical results. Physical Review A, 2005, 71, .	2.5	6
27	Dual Channel Resonant DC-DC Converter Family. EPE Journal (European Power Electronics and Drives) Tj ETQq1 1 0.784314 rgBT /Ove	0.7	6
28	Integrated multimedia educational program of a DC servo system for distant learning. , 2008, , .		6
29	Hartree-Fock-like partitioning of the two-matrix for an exactly solvable two-electron model atom. Physical Review A, 2011, 83, .	2.5	6
30	Series expansions for an exact two-electron wave function in terms of LÃ¶wdin's renormalized natural orbitals. Physical Review A, 2012, 85, .	2.5	5
31	Investigation of the effects of nonlinear model of super-capacitors in local DC microgrids supplied by renewables. , 2012, , .		5
32	Homogeneous Fermi liquid with â€˜artificialâ€™ repulsive inverse square law interparticle potential energy. Physics and Chemistry of Liquids, 2006, 44, 571-578.	1.2	4
33	Strength of dipolar backflow patterns around slow protons in three- and two-dimensional electron gases. Physical Review B, 2007, 76, .	3.2	4
34	Photovoltaic / thermal system for stand-alone operation. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	4
35	Energy-loss straggling of swift heavy ions in an electron gas. Physical Review A, 2008, 78, .	2.5	4
36	Critically shielded potential in a three-dimensional electron gas: The induced charge density at the origin. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3182-3183.	2.1	4

#	Article	IF	Citations
37	Measures for the Dynamics in a Few-Body Quantum System with Harmonic Interactions. Few-Body Systems, 2018, 59, 1.	1.5	4
38	Charge-state-dependent collisional energy-loss straggling of swift ions in a degenerate electron gas. Physical Review A, 2009, 80, .	2.5	3
39	Dimensionality dependence of the self-interaction correction in the local-density approximation to density functional theory. Physical Review B, 2010, 81, .	3.2	3
40	Orientation-dependent stopping power of a degenerate electron gas for slow homonuclear dimers. Physical Review A, 2010, 81, .	2.5	3
41	Moments of powers of the HulthÃ©n density. Journal of Mathematical Chemistry, 2012, 50, 1707-1710.	1.5	3
42	Control of wind power. , 2013, , .		3
43	Information-theoretic aspects of friction in the quantum mechanics of an interacting two-electron harmonic atom. Journal of Mathematical Chemistry, 2015, 53, 1274-1279.	1.5	3
44	Dynamics of DFIG controlled by Rotor Side Converter in wind energy. , 2015, , .		3
45	E-Learning for Power Quality. IEEJ Transactions on Industry Applications, 2006, 126, 547-552.	0.2	3
46	Electron-electron interaction in a two-dimensional electron gas: Bound states at low densities. Physical Review B, 2007, 75, .	3.2	2
47	Virtual Power Electronics: Novel Software Tools for Design, Modeling and Education. IEEJ Transactions on Industry Applications, 2008, 128, 969-978.	0.2	2
48	Coupling of conduction electrons to two-level systems formed by hydrogen: a scattering approach. Journal of Physics Condensed Matter, 2009, 21, 175701.	1.8	2
49	Study of doubly fed induction generator for wind power application. , 2013, , .		2
50	Timing calculations for three level dodecagonal space vector structure from reference phase voltages. , 2015, , .		2
51	Control of Power Flow Between the Wind Generator and Network. IEEE Transactions on Industry Applications, 2015, 51, 4699-4708.	4.9	2
52	Correlated model atom in a time-dependent external field: Sign effect in the energy shift. Advances in Quantum Chemistry, 2019, , 23-45.	0.8	2
53	Speed control of ultrahighspeed turbine - generator set with nonlinear control - loop applied for waste and renewable energy recovery. , 2009, , .		2
54	Investigation of self-excited ultrahigh speed induction generators for Distributed Generation Systems. , 2011, , .		1

#	Article	IF	Citations
55	On-line efficiency estimation for DC/DC converter cluster by dedicated software. , 2012, , .		1
56	Stability of digitally controlled PFC boost converter with auxiliary state vector. , 2013, , .		1
57	A 19 level dodecagonal voltage space vector structure for medium voltage IM drive. , 2014, , .		1
58	Local-field corrections in the calculation of electronic stopping power. Acta Physica Hungarica, 1986, 60, 203-211.	0.1	0
59	Neutron and X-ray diffraction from liquid Rb. Physics and Chemistry of Liquids, 2008, 46, 481-483.	1.2	0
60	Pair formation temperature in jelliumlike two-dimensional electron gases. Physical Review B, 2009, 80, .	3.2	0
61	Time average approach for the calculation of quasi-subharmonics of PWM technique in ultra high speed AC motor supply. , 2010, , .		0
62	Analysis and compensation of oscillations in digitally controlled PFC converter. , 2013, , .		0
63	Development of animated material for e-learning in solar powered electric vehicles. , 2013, , .		0
64	Wind energy penetration into distributed generation and its static and dynamic features. , 2014, , .		0
65	Comparative study of ultrahigh-speed induction generators with self-excitation. , 2014, , .		0
66	Simulation of Basic, Protein-Based Logic Gates. Advanced Materials Research, 2015, 1117, 132-135.	0.3	0
67	Two-channel approach to the average retarding force of metals for slow singly ionized projectiles. Physical Review A, 2020, 102, .	2.5	0
68	Application of the Plane-Wave-Based Perturbation Theory to the Density Modulation Induced by a Point Charge in an Electron Gas. , 2018, , 133-138.		0
69	Sudden excitations of harmonic normal modes. Journal of Mathematical Chemistry, 0, , 1.	1.5	0