

M Lawrence Glasser

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2988986/publications.pdf>

Version: 2024-02-01

93
papers

1,080
citations

516215

16
h-index

433756

31
g-index

98
all docs

98
docs citations

98
times ranked

657
citing authors

#	ARTICLE	IF	CITATIONS
1	The uses of quantum field theory in diffusion-limited reactions. <i>Reviews of Modern Physics</i> , 1998, 70, 979-1001.	16.4	210
2	Indirect Interaction of Solid-State Qubits via Two-Dimensional Electron Gas. <i>Physical Review Letters</i> , 2001, 86, 5112-5115.	2.9	103
3	Extended Watson integrals for the cubic lattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977, 74, 1800-1801.	3.3	92
4	Spin Wave Spectra of Magnetite. <i>Physical Review</i> , 1963, 130, 1783-1789.	2.7	63
5	Exact solutions of anisotropic diffusion-limited reactions with coagulation and annihilation. <i>Journal of Statistical Physics</i> , 1995, 81, 881-899.	0.5	43
6	One Dimensional Models with a Singular Potential of the Type $\hat{V}(x) + \hat{V}^2(x)$. <i>International Journal of Theoretical Physics</i> , 2011, 50, 2144-2152.	0.5	40
7	Intermolecular forces in monolayers at air/water interfaces. <i>Journal of Colloid and Interface Science</i> , 1981, 81, 41-51.	5.0	38
8	Spectroscopy of a one-dimensional V-shaped quantum well with a point impurity. <i>Annals of Physics</i> , 2018, 389, 48-62.	1.0	28
9	Intermolecular Forces between the Alkanes Methane to Butane Adsorbed at the Water/Vapor Interface. <i>Langmuir</i> , 2003, 19, 6820-6825.	1.6	22
10	Second virial coefficient for a Lennard-Jones ($2n \sim n$) system in d dimensions and confined to a nanotube surface. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 300, 381-384.	0.9	20
11	Basic trigonometric power sums with applications. <i>Ramanujan Journal</i> , 2017, 42, 401-428.	0.4	19
12	Exact Partition Function for the Two-Dimensional Ising Model. <i>American Journal of Physics</i> , 1970, 38, 1033-1036.	0.3	18
13	Lateral Intermolecular Forces in the Physisorbed State: A Surface Field Polarization of Benzene and n-Hexane at the Water/ and Mercury/Vapor Interfaces. <i>Langmuir</i> , 2005, 21, 944-949.	1.6	18
14	The energy level structure of a variety of one-dimensional confining potentials and the effects of a local singular perturbation. <i>Canadian Journal of Physics</i> , 2015, 93, 1588-1596.	0.4	17
15	Kinetics of anisothermal phase transformations. <i>Journal of Applied Physics</i> , 1983, 54, 3502-3508.	1.1	16
16	The Infinite Square Well with a Singular Perturbation. <i>International Journal of Theoretical Physics</i> , 2011, 50, 2191-2200.	0.5	16
17	THE MATHEMATICS OF PRINCIPAL VALUE INTEGRALS AND APPLICATIONS TO NUCLEAR PHYSICS, TRANSPORT THEORY, AND CONDENSED MATTER PHYSICS. <i>Mathematical Models and Methods in Applied Sciences</i> , 1996, 06, 833-885.	1.7	15
18	Complete asymptotic expansions of the Fermi-Dirac integrals $F_p(\hat{\mu}) = \int_0^\infty \frac{e^{-\mu}}{(1 + e^{-\mu})^{p+1}} d\mu$. <i>Journal of Mathematical Physics</i> , 2001, 42, 1860-1868.	0.5	15

#	ARTICLE	IF	CITATIONS
19	Diffusion of Oligonucleotides from within Iron-Cross-Linked, Polyelectrolyte-Modified Alginate Beads: A Model System for Drug Release. <i>ChemPhysChem</i> , 2016, 17, 976-984.	1.0	15
20	Evaluation of lattice sums. IV. A five-dimensional sum. <i>Journal of Mathematical Physics</i> , 1975, 16, 1237-1238.	0.5	14
21	Quasibound states in an electric field. <i>Physical Review B</i> , 1990, 42, 7630-7632.	1.1	14
22	Exact evaluation of entropic quantities in a solvable two-particle model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 2317-2319.	0.9	14
23	On the Entropy of Spanning Trees on a Large Triangular Lattice. <i>Ramanujan Journal</i> , 2005, 10, 205-214.	0.4	13
24	Spin-Wave Contribution to the Heat Capacity of Magnetite. <i>Physical Review</i> , 1963, 132, 47-49.	2.7	12
25	Exchange Energy of an Electron Gas of Arbitrary Dimensionality. <i>SIAM Journal on Applied Mathematics</i> , 1983, 43, 535-545.	0.8	12
26	A class of one-dimensional relativistic band models. <i>American Journal of Physics</i> , 1983, 51, 936-939.	0.3	11
27	Transverse Conductivity of an Electron Gas: Zero-Frequency Limit. <i>Physical Review</i> , 1963, 129, 472-480.	2.7	9
28	Integral Transforms in Applied Mathematics. <i>American Journal of Physics</i> , 1972, 40, 785-785.	0.3	9
29	Spectral properties of the two-dimensional Schrödinger Hamiltonian with various solvable confinements in the presence of a central point perturbation. <i>Physica Scripta</i> , 2019, 94, 055202.	1.2	9
30	Spin-wave dispersion curves for magnetite. <i>Physics Letters</i> , 1962, 2, 248-249.	2.2	8
31	Phase transitions for the Ising model on the closed Cayley tree. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1983, 119, 230-242.	1.2	8
32	Long transmission times for transport through a weakly scattering slab. <i>Physical Review A</i> , 1992, 45, 825-828.	1.0	8
33	Anisotropic diffusion-limited reactions with coagulation and annihilation. <i>Physical Review E</i> , 1996, 53, 739-742.	0.8	8
34	An integral representation for the product of two parabolic cylinder functions having unrelated arguments. <i>Integral Transforms and Special Functions</i> , 2015, 26, 825-828.	0.8	8
35	Thermal smearing and screening in a strong magnetic field for Dirac materials in comparison with the two dimensional electron liquid. <i>European Physical Journal B</i> , 2016, 89, 1.	0.6	8
36	Exact Solutions of Low-Dimensional Reaction-Diffusion Systems. <i>International Journal of Modern Physics B</i> , 1997, 11, 109-114.	1.0	7

#	ARTICLE	IF	CITATIONS
37	Diffusion-limited one-species reactions in the Bethe lattice. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 065107.	0.7	7
38	The Summation of Series. <i>SIAM Journal on Mathematical Analysis</i> , 1971, 2, 595-600.	0.9	6
39	Efficient Thermal Modeling of SOI MOSFETs for Fast Dynamic Operation. <i>IEEE Transactions on Electron Devices</i> , 2004, 51, 1659-1666.	1.6	6
40	Generalized cosecant numbers and trigonometric inverse power sums. <i>Applicable Analysis and Discrete Mathematics</i> , 2018, 12, 70-109.	0.3	6
41	A relativistic one dimensional band model with position dependent mass. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126277.	0.9	5
42	A novel class of Bessel function integrals. <i>Journal of Mathematical Physics</i> , 1984, 25, 2933-2934.	0.5	4
43	Anomalous transmission-time moments in the ballistic limit of isotropic scattering. <i>Physical Review A</i> , 1992, 45, 8573-8579.	1.0	4
44	Critically shielded potential in a three-dimensional electron gas: The induced charge density at the origin. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 3182-3183.	0.9	4
45	Master theorems for a family of integrals. <i>Integral Transforms and Special Functions</i> , 2014, 25, 805-820.	0.8	4
46	Measures for the Dynamics in a Few-Body Quantum System with Harmonic Interactions. <i>Few-Body Systems</i> , 2018, 59, 1.	0.7	4
47	A functional identity involving elliptic integrals. <i>Ramanujan Journal</i> , 2018, 47, 243-251.	0.4	4
48	Electric field effects on motion of a charged particle through a saddle potential in a magnetic field. <i>Physical Review B</i> , 2007, 76, .	1.1	3
49	Moments of powers of the Hulth�n density. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 1707-1710.	0.7	3
50	Lehmer's Interesting Series. <i>American Mathematical Monthly</i> , 2013, 120, 116.	0.2	3
51	The Laplace equation in the exterior of the Hankel contour and novel identities for hypergeometric functions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20130081.	1.0	3
52	Information-theoretic aspects of friction in the quantum mechanics of an interacting two-electron harmonic atom. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 1274-1279.	0.7	3
53	Series Expansions for Mathematical Physicists. <i>American Journal of Physics</i> , 1969, 37, 337-337.	0.3	2
54	Slater sum for central field problems characterized by its s-wave component alone. <i>Journal of Mathematical Physics</i> , 1999, 40, 2671-2679.	0.5	2

#	ARTICLE	IF	CITATIONS
55	Exchange Energy for Two-Active-Electron Diatomic Systems Within the Surface Integral Method. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 2004, 15, 101.	0.3	2
56	Green's function for electrons in a narrow quantum well in a parallel magnetic field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 340, 315-319.	0.9	2
57	Some integrals of the Dedekind $\hat{\eta}$ -function. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 354, 490-493.	0.5	2
58	Conjectures on the evaluation of alternative modular bases and formulas approximating $\zeta(2)$. <i>Journal of Mathematical Analysis and Applications</i> , 2013, 400, 100-110.	0.2	2
59	Ramanujan type approximation formulas. <i>Journal of Number Theory</i> , 2013, 133, 3453-3469.	0.2	2
60	Ground-state energy of an s-state model of the inhomogeneous electron liquid in relation to an exactly solvable model of He with additional radial correlation. <i>Physics and Chemistry of Liquids</i> , 2014, 52, 571-575.	0.4	2
61	A Note on Beukers's ϵ 's and Related Double Integrals. <i>American Mathematical Monthly</i> , 2019, 126, 361-363.	0.2	2
62	Evaluations of a continued fraction of Ramanujan. <i>Rendiconti Del Seminario Matematico Dell 'Universita' Di Padova/Mathematical Journal of the University of Padova</i> , 2015, 133, 1-10.	0.2	2
63	Spreading of a viscous drop on a smooth surface—Extension of Stella's analysis. <i>Journal of Applied Physics</i> , 1975, 46, 2327-2328.	1.1	1
64	Quantum well electron dynamics in a parallel magnetic field. , 0, , .		1
65	Proposed interpretation of the transverse magnetic field dependence of the melting temperature $T_m(B)$ of a two-dimensional one-component plasma driven by logarithmic interactions. <i>Phase Transitions</i> , 2012, 85, 1018-1021.	0.6	1
66	On quadratic Gauss sums and variations thereof. <i>Cogent Mathematics</i> , 2015, 2, 1021187.	0.4	1
67	Diffusion of Oligonucleotides from within Iron-Cross-Linked, Polyelectrolyte-Modified Alginate Beads: A Model System for Drug Release. <i>ChemPhysChem</i> , 2016, 17, 926-926.	1.0	1
68	Symmetries of certain double integrals related to Hall effect devices. <i>Ramanujan Journal</i> , 2020, 53, 39-48.	0.4	1
69	Problems for Solution: 4947-4952. <i>American Mathematical Monthly</i> , 1961, 68, 181.	0.2	0
70	4948. <i>American Mathematical Monthly</i> , 1962, 69, 240.	0.2	0
71	A Note on Abe's Theory of Paramagnetism. <i>Progress of Theoretical Physics</i> , 1964, 31, 718-718.	2.0	0
72	A Definite Integral. <i>SIAM Review</i> , 1967, 9, 121-121.	4.2	0

#	ARTICLE	IF	CITATIONS
73	5510. American Mathematical Monthly, 1968, 75, 793.	0.2	0
74	Another Definite Integral (M. L. Glasser). SIAM Review, 1985, 27, 254-254.	4.2	0
75	A method for evaluating laplace transforms and other integrals. Integral Transforms and Special Functions, 1997, 5, 161-184.	0.8	0
76	11036. American Mathematical Monthly, 2003, 110, 743.	0.2	0
77	11020. American Mathematical Monthly, 2003, 110, 542.	0.2	0
78	The effect of confinement on the hyperfine exchange interaction. Journal of Physics Condensed Matter, 2003, 15, 8673-8677.	0.7	0
79	Analysis of Electron Energy States in a Thin Quantum Well in a Parallel Magnetic Field. IEEE Nanotechnology Magazine, 2005, 4, 57-58.	1.1	0
80	11148. American Mathematical Monthly, 2005, 112, 366.	0.2	0
81	Electron tunneling/scattering through a QPC saddle potential in crossed electric and magnetic fields. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 301-303.	0.8	0
82	Exchange energy for two closed shells generated by a bare Coulomb potential energy $\hat{V} = Ze^2/r$ in the limit of large Z, in two dimensions. Journal of Mathematical Chemistry, 2010, 47, 1313-1322.	0.7	0
83	Analytic structure of ground-state energies and wave functions for the inhomogeneous electron liquid in non-relativistic He-like atomic ions with nuclear charge Z . Physics and Chemistry of Liquids, 2012, 50, 389-398.	0.4	0
84	Weak harmonic confinement of the quintet solution of a Moshinsky atom with 4 electrons. Journal of Mathematical Chemistry, 2013, 51, 1515-1520.	0.7	0
85	Relativistic ground state of a hydrogenlike molecular ion. Physical Review A, 2014, 89, .	1.0	0
86	A Technique in Contour Integration. American Mathematical Monthly, 2014, 121, 447.	0.2	0
87	Quantum mechanics of a simulated trihydrogen dication. Journal of Mathematical Chemistry, 2014, 52, 2119-2127.	0.7	0
88	Differential equation for the ground-state density of a model spin-compensated atom in an external potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 644-645.	0.9	0
89	On Morrison's definite integral. Aequationes Mathematicae, 2015, 89, 1241-1250.	0.4	0
90	Conjectures on the evaluation of certain functions with algebraic properties. Journal of Number Theory, 2015, 155, 63-84.	0.2	0

#	ARTICLE	IF	CITATIONS
91	Asymptotics and exact formulas for Zagier polynomials. <i>Research in Number Theory</i> , 2016, 2, 1.	0.1	0
92	A note on the Moll–Arias de Reyna integral. <i>Ramanujan Journal</i> , 2020, 51, 329-332.	0.4	0
93	Integrals and Series Resulting from Two Sampling Theorems. <i>Sampling Theory in Signal and Information Processing</i> , 2006, 5, 89-97.	0.2	0