Jose M Gomez Llorente

List of Publications by Year
in descending order

71	1,397	304602 22	377752 34
papers	citations	h-index	g-index

72	72	72	870
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tunneling control in a two-level system. Physical Review A, 1992, 45, R6958-R6961.	1.0	145
2	Spectra in the chaotic region: A classical analysis for the sodium trimer. Journal of Chemical Physics, 1989, 91, 953-962.	1.2	66
3	Spectra in the chaotic region: Methods for extracting dynamic information. Journal of Chemical Physics, 1989, 90, 1505-1518.	1.2	57
4	Global Potential Energy Minima of C60(H2O)n Clusters. Journal of Physical Chemistry B, 2006, 110, 13357-13362.	1.2	55
5	Manifestations of spatially dependent friction in classical activated rate processes. Journal of Chemical Physics, 1993, 98, 4082-4097.	1.2	52
6	Confinement Effects on Water Clusters Inside Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 17019-17028.	1.5	48
7	A classical trajectory study of the photodissociation spectrum of H+3. Journal of Chemical Physics, 1989, 90, 5406-5419.	1.2	46
8	Classical-quantum correspondence for barrier crossing in a driven bistable potential. Journal of Physics A, 1992, 25, L303-L310.	1.6	42
9	Periodic orbit analysis of the photodissociation spectrum of H+3. Journal of Chemical Physics, 1988, 89, 1195-1196.	1.2	35
10	Global Potential Energy Minima of (H₂O)_n Clusters on Graphite. Journal of Physical Chemistry C, 2007, 111, 14862-14869.	1.5	33
11	Microcanonical versus Canonical Analysis of Protein Folding. Physical Review Letters, 2008, 100, 258104.	2.9	33
12	The extraction of dynamics and the classical mechanical simulation of low resolution regular and chaotic spectra: HCN/HNC. Journal of Chemical Physics, 1990, 93, 76-86.	1.2	32
13	Rotational spectra for offâ€¢center endohedral atoms at C60 fullerene. Journal of Chemical Physics, 1996, 104, 1179-1186.	1.2	31
14	Modeling Water Clusters on Cationic Carbonaceous Seeds. Journal of Physical Chemistry A, 2010, 114, 7267-7274.	1.1	31
15	Classical mechanical analysis of the experimental high-energy spectrum of the sodium trimer molecule. Physical Review Letters, 1989, 62, 2096-2099.	2.9	30
16	Local and normal mode intramolecular vibrational relaxation in benzene. Journal of Chemical Physics, 1990, 92, 2762-2773.	1.2	30
17	Electronic structure and polarizabilities of icosahedral fullerenes: A Pariserâ€“Parrâ€“Pople approach. Journal of Chemical Physics, 2001, 114, 1272-1277.	1.2	27
18	Spectra in the chaotic region: A quantum analysis of the photodissociation of H+3. Journal of Chemical Physics, 1988, 89, 5959-5960.	1.2	26

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19	Order out of chaos in the H3+ molecule. Chemical Physics Letters, 1987, 138, 125-130.	1.2	25
20	The extraction of dynamics from the photodetachment spectrum of ClHClâ¯by classical mechanical methods. Journal of Chemical Physics, 1991, 94, 2608-2613.	1.2	25
21	Control of tunneling in an electromagnetic cavity. Physical Review A, 1993, 48, 782-785.	1.0	23
22	Quasiclassical trajectory method for tunneling rates in the unimolecular decomposition of H3+. Chemical Physics, 1988, 120, 37-49.	0.9	22
23	Optimal covering of C60 fullerene by rare gases. Journal of Chemical Physics, 2012, 137, 074306.	1.2	22
24	Lowest-energy structures of (C[sub 60])[sub n]X (X=Li[sup +],Na[sup +],K[sup +],Cl[sup â¯]) and (C[sub) Tj ETQq0 0 0 rgBT /Overlock	1.2	21
25	Phase space analysis of chaotic spectra in a conservative Hamiltonian system. Chemical Physics Letters, 1990, 174, 325-332.	1.2	20
26	Semiclassical dressed states of two-level quantum systems driven by non-resonant and/or strong laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 2371-2382.	0.6	19
27	A theoretical model of the static polarizability of carbon buckyonions. Journal of Chemical Physics, 2003, 118, 7103-7111.	1.2	19
28	Physical properties of small water clusters in low and moderate electric fields. Journal of Chemical Physics, 2011, 135, 124303.	1.2	19
29	Polarization effects in C60 fullerene complexes of alkali ions. Journal of Chemical Physics, 1998, 109, 3573-3579.	1.2	17
30	Water clusters confined in icosahedral fullerene cavities. Chemical Physics, 2012, 399, 240-244.	0.9	17
31	On polarization effects in endohedral fullerene complexes. Chemical Physics Letters, 1995, 235, 160-162.	1.2	15
32	Rotational dynamics of endohedral C60 fullerene complexes. Journal of Physics and Chemistry of Solids, 1997, 58, 1689-1696.	1.9	15
33	Photoabsorption spectra of icosahedral fullerenes: A semiempirical approach. Journal of Chemical Physics, 2002, 116, 10648-10655.	1.2	15
34	Global minima of (C60)nCa2+, (C60)nFâ¯ and (C60)nIâ¯ clusters. Chemical Physics Letters, 2005, 410, 404-409.	1.2	15
35	Theoretical Support for Buckyonions as Carriers of the UV Interstellar Extinction Feature. Physical Review Letters, 2005, 94, 105501.	2.9	15
36	Classical mechanical methods for extracting dynamics from stimulated-emission pumping spectra. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 1851.	0.9	14

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37	A semi-empirical analytical potential for diatomic molecules at spherical fullerenes. Chemical Physics Letters, 1994, 222, 88-94.	1.2	14
38	A minimal representation of the self-assembly of virus capsids. Soft Matter, 2014, 10, 3560.	1.2	14
39	Free and hindered rotations in endohedral C60 fullerene complexes. International Journal of Quantum Chemistry, 1997, 65, 655-663.	1.0	13
40	Perturbative evolution of far-off-resonance driven two-level systems: coherent population trapping, localization and harmonic generation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 5403-5413.	0.6	13
41	Low-temperature dynamics and spectroscopy in exohedral rare-gas C60 fullerene complexes. Journal of Chemical Physics, 2001, 114, 5156-5163.	1.2	12
42	On the rotational spectra of endohedral atoms at fullerenes: the off-centre case. Chemical Physics Letters, 1995, 237, 115-122.	1.2	11
43	Kinetics of empty viral capsid assembly in a minimal model. Soft Matter, 2019, 15, 7166-7172.	1.2	11
44	On polarization effects in endohedral fullerene complexes (Chem. Phys. Letters 235 (1995) 160). Chemical Physics Letters, 1995, 243, 587-588.	1.2	9
45	Global Potential Energy Minima of (H₂O)_nClusters on Graphite: A Comparative Study of the TIPNP (N= 3, 4, 5) Family. Journal of Physical Chemistry C, 2008, 112, 16497-16504.	1.5	9
46	Expanding ring-shaped Bose-Einstein condensates as analogs of cosmological models: Analytical characterization of the inflationary dynamics. Physical Review A, 2019, 100, .	1.0	9
47	Analytical solutions for a resonantly driven two-doublet system. Physical Review A, 1994, 49, 2759-2765.	1.0	8
48	Raman rotational spectra of endohedral C60 fullerene complexes. Journal of Chemical Physics, 1996, 105, 4482-4487.	1.2	8
49	Weak-coupling-like time evolution of driven four-level systems in the strong-coupling regime. Physical Review A, 2003, 68, .	1.0	8
50	Minimal Design Principles for Icosahedral Virus Capsids. ACS Nano, 2021, 15, 14873-14884.	7.3	8
51	Locating Pollicott-Ruelle resonances in chaotic dynamical systems: A class of numerical schemes. Physical Review E, 2002, 66, 046208.	0.8	7
52	A theoretical model of the photoabsorption spectra of carbon buckyonions. Journal of Chemical Physics, 2004, 120, 6163-6172.	1.2	7
53	Spectra in the chaotic region: Linewidths and intramolecular vibrational relaxation rates from classical mechanics. Physical Review A, 1990, 41, 697-705.	1.0	6
54	Theoretical Methods for the Analysis of Spectra of Highly Vibrationally Excited Polyatomic Molecules. Laser Chemistry, 1992, 12, 85-102.	0.5	6

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55	Caging effects in the lowâ€temperature rotational spectra of endohedral diatomic molecules at C60 fullerene. Journal of Chemical Physics, 1996, 104, 5754-5760.	1.2	6
56	Periodic driving control of Raman-induced spin-orbit coupling in Bose-Einstein condensates: The heating mechanisms. Physical Review A, 2016, 93, .	1.0	6
57	On the consistency between recent experimental results and a previous theoretical analysis for HCN. Journal of Chemical Physics, 1991, 94, 2376-2376.	1.2	5
58	Mixed dynamics and tunneling. Physical Review E, 1995, 52, 4736-4740.	0.8	5
59	A theoretical analysis of the photoabsorption spectra of big single-shell spherical fullerenes. Chemical Physics Letters, 2004, 389, 191-197.	1.2	5
60	Black-hole lasing in Boseâ€“Einstein condensates: analysis of the role of the dynamical instabilities in a nonstationary setup. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 075004.	0.6	5
61	Stabilisation approach to the quasi-Landau spectrum of the magnetised hydrogen atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, L677-L683.	0.6	4
62	Nonperturbative Coherent Population Trapping: An Analytic Model. Physical Review Letters, 2002, 88, 053603.	2.9	4
63	Acceleration of spin-orbit-coupled Bose-Einstein condensates: Analytical description of the emergence of Landau-Zener transitions. Physical Review A, 2016, 94, .	1.0	4
64	A minimal coarse-grained model for the low-frequency normal mode analysis of icosahedral viral capsids. Soft Matter, 2020, 16, 3443-3455.	1.2	4
65	Classical dynamical analysis of the vibrational spectra for small polyatomic molecules. International Journal of Quantum Chemistry, 1990, 38, 429-446.	1.0	3
66	Dynamical resonance and tunneling in a driven system with periodic potential. Chemical Physics, 1997, 217, 221-231.	0.9	3
67	An planck-asymptotic analysis of the error in the thawed Gaussian approximation and in the corresponding initial value representation of the quantum propagator. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 1065-1096.	0.7	3
68	Dynamically localized wave packets as a tool to study the dynamics of the LiNCâ‡ŒLiCN isomerization reaction. Journal of Chemical Physics, 2002, 116, 10183-10196.	1.2	2
69	On New Measures of Reliability, Stability and Complexity in Quantum Mechanics. Europhysics Letters, 1995, 30, 451-456.	0.7	1
70	Scattering cross sections for low-energy alkali cation +C60 collisions: The relevance of polarization. Journal of Chemical Physics, 1999, 110, 10359-10363.	1.2	1
71	Chaotic spectra and IVR in highly excited atoms and molecules. AIP Conference Proceedings, 1990, , .	0.3	0