Francisco Guinea

List of Publications by Year in Descending Order

457 papers	61,018 citations	98 h-index	243 g-index
473 ext. papers	67,359 ext. citations	5.6 avg, IF	8.02 L-index

#	Paper	IF	Citations
457	Strain Switching in van der Waals Heterostructures triggered by a Spin-Crossover Metal Organic Framework.. *Advanced Materials*, **2022**, e2110027	24	3
456	Superconductivity from repulsive interactions in rhombohedral trilayer graphene: A Kohn-Luttinger-like mechanism. *Physical Review B*, **2022**, 105,	3.3	3
455	Electrostatic interactions in twisted bilayer graphene. *Nano Materials Science*, **2021**,	10.2	2
454	Flat bands, strains, and charge distribution in twisted bilayer hBN. *Physical Review B*, **2021**, 103,	3.3	8
453	Indentation of solid membranes on rigid substrates with van der Waals attraction. *Physical Review E* , **2021**, 103, 043002	2.4	2
452	Tunable large Berry dipole in strained twisted bilayer graphene. *Physical Review B*, **2021**, 103,	3.3	5
451	Double single-channel Kondo coupling in graphene with Fe molecules. *Journal of Physics Communications*, **2021**, 5, 075010	1.2	
450	Magnetization Signature of Topological Surface States in a Non-Symmorphic Superconductor. *Advanced Materials*, **2021**, 33, e2103257	24	
449	Coulomb interaction, phonons, and superconductivity in twisted bilayer graphene. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	12
448	High transmission in twisted bilayer graphene with angle disorder. *Physical Review B*, **2021**, 104,	3.3	1
447	Narrow bands, electrostatic interactions and band topology in graphene stacks. *2D Materials*, **2021**, 8, 044006	5.9	2
446	Heterostrain Determines Flat Bands in Magic-Angle Twisted Graphene Layers. *Physical Review Letters*, **2021**, 127, 126405	7.4	3
445	Band structure and superconductivity in twisted trilayer graphene. *Physical Review B*, **2021**, 104,	3.3	2
444	Charge-polarized interfacial superlattices in marginally twisted hexagonal boron nitride. *Nature Communications*, **2021**, 12, 347	17.4	33
443	Tuning band gaps in twisted bilayer MoS2. *Physical Review B*, **2020**, 102,	3.3	7
442	Tunability of multiple ultraflat bands and effect of spin-orbit coupling in twisted bilayer transition metal dichalcogenides. *Physical Review B*, **2020**, 102,	3.3	9
441	Colloquium: Spintronics in graphene and other two-dimensional materials. *Reviews of Modern Physics*, **2020**, 92,	40.5	108

440	Numerical study of the rippling instability driven by electron-phonon coupling in graphene. *Physical Review B*, **2020**, 101,	3.3	3
439	Electron heating and mechanical properties of graphene. *Physical Review B*, **2020**, 101,	3.3	1
438	Band structure and insulating states driven by Coulomb interaction in twisted bilayer graphene. *Physical Review B*, **2020**, 102,	3.3	47
437	The emergence of one-dimensional channels in marginal-angle twisted bilayer graphene. *2D Materials*, **2020**, 7, 015023	5.9	13
436	Piezoelectricity in Monolayer Hexagonal Boron Nitride. *Advanced Materials*, **2020**, 32, e1905504	24	46
435	Piezoelectric Materials: Piezoelectricity in Monolayer Hexagonal Boron Nitride (Adv. Mater. 1/2020). *Advanced Materials*, **2020**, 32, 2070006	24	
434	Band structure of twisted bilayer graphene on hexagonal boron nitride. *Physical Review B*, **2020**, 102,	3.3	12
433	Giant oscillations in a triangular network of one-dimensional states in marginally twisted graphene. *Nature Communications*, **2019**, 10, 4008	17.4	36
432	Strained Bubbles in van der Waals Heterostructures as Local Emitters of Photoluminescence with Adjustable Wavelength. *ACS Photonics*, **2019**, 6, 516-524	6.3	59
431	Hund nodal line semimetals: The case of a twisted magnetic phase in the double-exchange model. *Physical Review B*, **2019**, 99,	3.3	7
430	Continuum models for twisted bilayer graphene: Effect of lattice deformation and hopping parameters. *Physical Review B*, **2019**, 99,	3.3	73
429	Strain-induced bound states in transition-metal dichalcogenide bubbles. *2D Materials*, **2019**, 6, 025010	5.9	19
428	Strain-induced large Faraday rotation in graphene at subtesla external magnetic fields. *Physical Review Research*, **2019**, 1,	3.9	2
427	Dimensional reduction, quantum Hall effect and layer parity in graphite films. *Nature Physics*, **2019**, 15, 437-442	16.2	23
426	Twists and the Electronic Structure of Graphitic Materials. *Nano Letters*, **2019**, 19, 8683-8689	11.5	27
425	Electronic band structure and pinning of Fermi energy to Van Hove singularities in twisted bilayer graphene: A self-consistent approach. *Physical Review B*, **2019**, 100,	3.3	45
424	Suppressing backscattering of helical edge modes with a spin bath. *Physical Review B*, **2019**, 100,	3.3	1
423	Signatures of surface Majorana modes in the magnetic response of topological superconductors. *Physical Review B*, **2019**, 99,	3.3	1

422	Edge Modes and Nonlocal Conductance in Graphene Superlattices. *Physical Review Letters*, **2018**, 120, 026802	7.4	13
421	Modulation of Kekul adatom ordering due to strain in graphene. *Physical Review B*, **2018**, 97,	3.3	6
420	Topological unctions from Crossed Andreev Reflection in the Quantum Hall Regime. *Physical Review Letters*, **2018**, 120, 116801	7.4	9
419	Strain Tuning of the Anisotropy in the Optoelectronic Properties of TiS3. *ACS Photonics*, **2018**, 5, 3231-3237	6.3	11
418	Piezoelectricity and valley chern number in inhomogeneous hexagonal 2D crystals. *Npj 2D Materials and Applications*, **2018**, 2,	8.8	30
417	Effective interactions in a graphene layer induced by the proximity to a ferromagnet. *2D Materials*, **2018**, 5, 014004	5.9	18
416	Electrostatic effects, band distortions, and superconductivity in twisted graphene bilayers. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 13174-13179	11.5	138
415	Polariton Anomalous Hall Effect in Transition-Metal Dichalcogenides. *Physical Review Letters*, **2018**, 121, 137402	7.4	8
414	Magnetic tilting and emergent Majorana spin connection in topological superconductors. *Physical Review B*, **2018**, 98,	3.3	3
413	Evidence of large spin-orbit coupling effects in quasi-free-standing graphene on Pb/Ir(1 1 1). *2D Materials*, **2018**, 5, 035029	5.9	18
412	Quantum spin Hall effect in twisted bilayer graphene. *2D Materials*, **2017**, 4, 025027	5.9	11
411	Anisotropic features in the electronic structure of the two-dimensional transition metal trichalcogenide TiS 3 : electron doping and plasmons. *2D Materials*, **2017**, 4, 025085	5.9	20
410	Electrothermal Control of Graphene Plasmon-Phonon Polaritons. *Advanced Materials*, **2017**, 29, 1700566	24	20
409	Theory of 2D crystals: graphene and beyond. *Chemical Society Reviews*, **2017**, 46, 4387-4399	58.5	91
408	Many-body effects in doped graphene on a piezoelectric substrate. *Physical Review B*, **2017**, 96,	3.3	1
407	Electrically Controllable Magnetism in Twisted Bilayer Graphene. *Physical Review Letters*, **2017**, 119, 107201	7.4	86
406	Infrared Nanophotonics Based on Graphene Plasmonics. *ACS Photonics*, **2017**, 4, 2989-2999	6.3	70
405	Majorana zero modes in a two-dimensional p-wave superconductor. *Physical Review B*, **2017**, 96,	3.3	6

404	The influence of strain on the elastic constants of graphene. *Carbon*, **2017**, 124, 42-48	10.4	37
403	The electron-phonon interaction at deep Bi Te-semiconductor interfaces from Brillouin light scattering. *Scientific Reports*, **2017**, 7, 16449	4.9	9
402	Ultrathin graphene-based membrane with precise´molecular sieving and ultrafast solvent´permeation. *Nature Materials*, **2017**, 16, 1198-1202	27	383
401	Spin relaxation in corrugated graphene. *Physical Review B*, **2017**, 95,	3.3	12
400	Polaritons in layered two-dimensional materials. *Nature Materials*, **2017**, 16, 182-194	27	665
399	Electron-phonon vertex and its influence on the superconductivity of two-dimensional metals on a piezoelectric substrate. *Physical Review B*, **2016**, 94,	3.3	2
398	Electronic structure of 2 H -NbSe 2 single-layers in the CDW state. *2D Materials*, **2016**, 3, 035028	5.9	33
397	Orbital magnetic susceptibility of graphene and MoS2. *Physical Review B*, **2016**, 93,	3.3	10
396	Faraday effect in rippled graphene: Magneto-optics and random gauge fields. *Physical Review B*, **2016**, 94,	3.3	7
395	Enhanced superconductivity in atomically thin TaS2. *Nature Communications*, **2016**, 7, 11043	17.4	200
394	Universal shape and pressure inside bubbles appearing in van der Waals heterostructures. *Nature Communications*, **2016**, 7, 12587	17.4	175
393	Edge modes in zigzag and armchair ribbons of monolayer MoS. *Journal of Physics Condensed Matter*, **2016**, 28, 495001	1.8	38
392	Superconductivity in Ca-doped graphene laminates. *Scientific Reports*, **2016**, 6, 23254	4.9	87
391	Novel effects of strains in graphene and other two dimensional materials. *Physics Reports*, **2016**, 617, 1-54	27.7	239
390	Topological features of engineered arrays of adsorbates in honeycomb lattices. *Physica B: Condensed Matter*, **2016**, 496, 1-8	2.8	
389	Strong Modulation of Optical Properties in Black Phosphorus through Strain-Engineered Rippling. *Nano Letters*, **2016**, 16, 2931-7	11.5	159
388	Mapping the effect of defect-induced strain disorder on the Dirac states of topological insulators. *Physical Review B*, **2016**, 94,	3.3	8
387	Inverse Funnel Effect of Excitons in Strained Black Phosphorus. *Physical Review X*, **2016**, 6,	9.1	29

386	Graphene spintronics: the European Flagship perspective. *2D Materials*, **2015**, 2, 030202	5.9	198
385	Strain engineering in semiconducting two-dimensional crystals. *Journal of Physics Condensed Matter* , **2015**, 27, 313201	1.8	266
384	Increasing the elastic modulus of graphene by controlled defect creation. *Nature Physics*, **2015**, 11, 26-31	16.2	235
383	Spatial variation of a giant spin□rbit effect induces electron confinement in graphene on ́Pb ̂islands. *Nature Physics*, **2015**, 11, 43-47	16.2	110
382	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. *Nanoscale*, **2015**, 7, 4598-810	7.7	2015
381	Magnetoelectronic properties of multilayer black phosphorus. *Physical Review B*, **2015**, 92,	3.3	34
380	Theory of strain in single-layer transition metal dichalcogenides. *Physical Review B*, **2015**, 92,	3.3	96
379	Topological currents in black phosphorus with broken inversion symmetry. *Physical Review B*, **2015**, 92,	3.3	35
378	Thermodynamical Properties and Stability of Crystalline Membranes in the Quantum Regime. *Materials Research Society Symposia Proceedings*, **2015**, 1727, 19		1
377	Majorana Zero Modes in Graphene. *Physical Review X*, **2015**, 5,	9.1	55
376	Many-body renormalization of the minimal conductivity in graphene. *Physical Review Letters*, **2014**, 112, 116604	7.4	20
375	Reply to □omment on □hermodynamics of quantum crystalline membranes□ *Physical Review B*, **2014**, 90,	3.3	2
374	Spontaneous strains and gap in graphene on boron nitride. *Physical Review B*, **2014**, 90,	3.3	74
373	Quantum spin Hall effect in two-dimensional crystals of transition-metal dichalcogenides. *Physical Review Letters*, **2014**, 113, 077201	7.4	109
372	Electronic properties of single-layer and multilayer transition metal dichalcogenides MX2 (M = Mo, W and X = S, Se). *Annalen Der Physik*, **2014**, 526, 347-357	2.6	143
371	Substrate-sensitive mid-infrared photoresponse in graphene. *ACS Nano*, **2014**, 8, 8350-6	16.7	26
370	Novel midinfrared plasmonic properties of bilayer graphene. *Physical Review Letters*, **2014**, 112, 116801	7.4	42
369	Stacking boundaries and transport in bilayer graphene. *Nano Letters*, **2014**, 14, 2052-7	11.5	55

368	Zero-bias conductance peak in detached flakes of superconducting 2H-TaS2 probed by scanning tunneling spectroscopy. *Physical Review B*, **2014**, 89,	3.3	14
367	Effect of point defects on the optical and transport properties of MoS2 and WS2. *Physical Review B*, **2014**, 90,	3.3	96
366	Plasmons and screening in monolayer and multilayer black phosphorus. *Physical Review Letters*, **2014**, 113, 106802	7.4	405
365	Tunable phonon-induced transparency in bilayer graphene nanoribbons. *Nano Letters*, **2014**, 14, 4581-6	11.5	109
364	Momentum dependence of spin□orbit interaction effects in single-layer and multi-layer transition metal dichalcogenides. *2D Materials*, **2014**, 1, 034003	5.9	71
363	Topological Defects in Topological Insulators and Bound States at Topological Superconductor Vortices. *Materials*, **2014**, 7, 1652-1686	3.5	6
362	Generation and morphing of plasmons in graphene superlattices. *Physical Review B*, **2014**, 90,	3.3	22
361	Collective excitations in a large-d model for graphene. *Physical Review B*, **2014**, 89,	3.3	19
360	Competition between spontaneous symmetry breaking and single-particle gaps in trilayer graphene. *Nature Communications*, **2014**, 5, 5656	17.4	39
359	Thermodynamics of quantum crystalline membranes. *Physical Review B*, **2014**, 89,	3.3	36
358	Random Strain Fluctuations as Dominant Disorder Source for High-Quality On-Substrate Graphene Devices. *Physical Review X*, **2014**, 4,	9.1	77
357	Electronic structure of spontaneously strained graphene on hexagonal boron nitride. *Physical Review B*, **2014**, 90,	3.3	37
356	Spin-valley relaxation and quantum transport regimes in two-dimensional transition-metal dichalcogenides. *Physical Review B*, **2014**, 90,	3.3	33
355	Interactions and superconductivity in heavily doped MoS2. *Physical Review B*, **2013**, 88,	3.3	63
354	Artificial honeycomb lattices for electrons, atoms and photons. *Nature Nanotechnology*, **2013**, 8, 625-33	28.7	297
353	Local strain engineering in atomically thin MoS2. *Nano Letters*, **2013**, 13, 5361-6	11.5	802
352	Flexural mode of graphene on a substrate. *Physical Review B*, **2013**, 88,	3.3	70
351	Quantum capacitance measurements of electron-hole asymmetry and next-nearest-neighbor hopping in graphene. *Physical Review B*, **2013**, 88,	3.3	66

350	In-plane magnetic textures at the surface of topological insulators. *Europhysics Letters*, **2013**, 104, 17001	1.6	4
349	Coupling light into graphene plasmons through surface acoustic waves. *Physical Review Letters*, **2013**, 111, 237405	7.4	84
348	Damping pathways of mid-infrared plasmons in graphene nanostructures. *Nature Photonics*, **2013**, 7, 394-399	33.9	682
347	Generation of pure bulk valley current in graphene. *Physical Review Letters*, **2013**, 110, 046601	7.4	177
346	Electric-field screening in atomically thin layers of MoS□the role of interlayer coupling. *Advanced Materials*, **2013**, 25, 899-903	24	122
345	Cloning of Dirac fermions in graphene superlattices. *Nature*, **2013**, 497, 594-7	50.4	884
344	Transverse current response of graphene at finite temperature: plasmons and absorption. *Journal of Optics (United Kingdom)*, **2013**, 15, 114005	1.7	10
343	Tight-binding model and direct-gap/indirect-gap transition in single-layer and multilayer MoS2. *Physical Review B*, **2013**, 88,	3.3	284
342	Topological superconductivity in metallic nanowires fabricated with a scanning tunneling microscope. *New Journal of Physics*, **2013**, 15, 055020	2.9	4
341	Spin memory and spin-lattice relaxation in two-dimensional hexagonal crystals. *Physical Review B*, **2013**, 88,	3.3	27
340	Electron-phonon interaction on the surface of a three-dimensional topological insulator. *Physical Review B*, **2013**, 88,	3.3	24
339	Coupling Light into Graphene Plasmons through Surface Acoustic Waves. *Physical Review Letters*, **2013**, 111,	7.4	1
338	Scattering by flexural phonons in suspended graphene under back gate induced strain. *Physica E: Low-Dimensional Systems and Nanostructures*, **2012**, 44, 963-966	3	37
337	Resonant plasmonic effects in periodic graphene antidot arrays. *Applied Physics Letters*, **2012**, 101, 151119	3.4	120
336	Topological superconducting state of lead nanowires in an external magnetic field. *Physical Review Letters*, **2012**, 109, 237003	7.4	16
335	Elliot-Yafet mechanism in graphene. *Physical Review Letters*, **2012**, 108, 206808	7.4	99
334	Strain engineering in graphene. *Solid State Communications*, **2012**, 152, 1437-1441	1.6	75
333	Electron pumping in graphene mechanical resonators. *Nano Letters*, **2012**, 12, 850-4	11.5	64

332	Spin-orbit coupling assisted by flexural phonons in graphene. *Physical Review B*, **2012**, 86,	3.3	29
331	Non-Abelian gauge potentials in graphene bilayers. *Physical Review Letters*, **2012**, 108, 216802	7.4	133
330	Bending modes, anharmonic effects, and thermal expansion coefficient in single-layer and multilayer graphene. *Physical Review B*, **2012**, 86,	3.3	75
329	Temperature dependence of the conductivity of graphene on boron nitride. *Physical Review B*, **2012**, 85,	3.3	31
328	Coulomb drag in graphene–boron nitride heterostructures: Effect of virtual phonon exchange. *Physical Review B*, **2012**, 86,	3.3	17
327	Electron-hole puddles in the absence of charged impurities. *Physical Review B*, **2012**, 85,	3.3	83
326	Designer Dirac fermions and topological phases in molecular graphene. *Nature*, **2012**, 483, 306-10	50.4	481
325	Surface plasmon enhanced absorption and suppressed transmission in periodic arrays of graphene ribbons. *Physical Review B*, **2012**, 85,	3.3	338
324	Electron-Electron Interactions in Graphene: Current Status and Perspectives. *Reviews of Modern Physics*, **2012**, 84, 1067-1125	40.5	833
323	Quenching of the quantum Hall effect in graphene with scrolled edges. *Physical Review Letters*, **2012**, 108, 166602	7.4	9
322	GraXe, graphene and xenon for neutrinoless double beta decay searches. *Journal of Cosmology and Astroparticle Physics*, **2012**, 2012, 037-037	6.4	4
321	Effect of Coulomb interactions on the physical observables of graphene. *Physica Scripta*, **2012**, T146, 014015	2.6	18
320	Skipping and snake orbits of electrons: Singularities and catastrophes. *Physical Review B*, **2012**, 85,	3.3	21
319	Odd-momentum pairing and superconductivity in vertical graphene heterostructures. *Physical Review B*, **2012**, 86,	3.3	20
318	Density functional theory analysis of flexural modes, elastic constants, and corrugations in strained graphene. *Physical Review B*, **2012**, 86,	3.3	24
317	Geometrical and topological aspects of graphene and related materials. *Journal of Physics A: Mathematical and Theoretical*, **2012**, 45, 383001	2	46
316	Strains and pseudomagnetic fields in circular graphene rings. *Physical Review B*, **2011**, 84,	3.3	32
315	Dirac cones reshaped by interaction effects in suspended graphene. *Nature Physics*, **2011**, 7, 701-704	16.2	577

314	Topologically protected zero modes in twisted bilayer graphene. *Physical Review B*, **2011**, 84,	3.3	98
313	Integer quantum Hall effect in trilayer graphene. *Physical Review Letters*, **2011**, 107, 126806	7.4	86
312	Fields radiated by a nanoemitter in a graphene sheet. *Physical Review B*, **2011**, 84,	3.3	163
311	Edge and waveguide terahertz surface plasmon modes in graphene microribbons. *Physical Review B* , **2011**, 84,	3.3	398
310	Gaps tunable by electrostatic gates in strained graphene. *Physical Review B*, **2011**, 83,	3.3	107
309	Spin connection and boundary states in a topological insulator. *Physical Review B*, **2011**, 83,	3.3	29
308	Pinning of a two-dimensional membrane on top of a patterned substrate: The case of graphene. *Physical Review B*, **2011**, 83,	3.3	50
307	Gauge fields and interferometry in folded graphene. *Physical Review B*, **2011**, 83,	3.3	58
306	Assembly of iron phthalocyanine and pentacene molecules on a graphene monolayer grown on Ru(0001). *Physical Review B*, **2011**, 84,	3.3	93
305	Temperature-dependent resistivity in bilayer graphene due to flexural phonons. *Physical Review B*, **2011**, 83,	3.3	62
304	Magnetic moments and Kondo effect near vacancies and resonant scatterers in graphene. *Physical Review B*, **2011**, 83,	3.3	33
303	Electron-induced rippling in graphene. *Physical Review Letters*, **2011**, 106, 045502	7.4	65
302	Energy gaps and a zero-field quantum Hall effect in graphene by strain engineering. *Nature Physics*, **2010**, 6, 30-33	16.2	1317
301	Variational approach to the excitonic phase transition in graphene. *Physical Review B*, **2010**, 82,	3.3	38
300	Periodically modulated geometric and electronic structure of graphene on Ru(0 0 0 1). *Semiconductor Science and Technology*, **2010**, 25, 034001	1.8	20
299	Generating quantizing pseudomagnetic fields by bending graphene ribbons. *Physical Review B*, **2010**, 81,	3.3	220
298	Strain-induced pseudomagnetic field for novel graphene electronics. *Nano Letters*, **2010**, 10, 3551-4	11.5	209
297	Effect of external conditions on the structure of scrolled graphene edges. *Physical Review B*, **2010**, 81,	3.3	39

296	Limits on charge carrier mobility in suspended graphene due to flexural phonons. *Physical Review Letters*, **2010**, 105, 266601	7.4	297
295	Effect of cluster formation on graphene mobility. *Physical Review B*, **2010**, 81,	3.3	120
294	Band structure and gaps of triangular graphene superlattices. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2010**, 368, 5391-402	3	49
293	Two-body problem in graphene. *Physical Review B*, **2010**, 81,	3.3	63
292	Strain-induced pseudo-magnetic fields greater than 300 tesla in graphene nanobubbles. *Science*, **2010**, 329, 544-7	33.3	1132
291	Singular elastic strains and magnetoconductance of suspended graphene. *Physical Review B*, **2010**, 81,	3.3	33
290	Missing atom as a source of carbon magnetism. *Physical Review Letters*, **2010**, 104, 096804	7.4	665
289	Robustness of edge states in graphene quantum dots. *Physical Review B*, **2010**, 82,	3.3	129
288	Electronic properties of a biased graphene bilayer. *Journal of Physics Condensed Matter*, **2010**, 22, 175503	2.8	121
287	Spin□rbit coupling in a graphene bilayer and in graphite. *New Journal of Physics*, **2010**, 12, 083063	2.9	70
286	Spin Control Without Magnetic Fields. *Physics Magazine*, **2010**, 3,	1.1	9
285	Gauge fields in graphene. *Physics Reports*, **2010**, 496, 109-148	27.7	655
284	Propagating, evanescent, and localized states in carbon nanotube□graphene junctions. *Physical Review B*, **2009**, 79,	3.3	34
283	Entanglement of spin chains with general boundaries and of dissipative systems. *Annalen Der Physik*, **2009**, 18, 561-584	2.6	5
282	Gauge fields, ripples and wrinkles in graphene layers. *Solid State Communications*, **2009**, 149, 1140-1143	1.6	73
281	The electronic properties of graphene. *Reviews of Modern Physics*, **2009**, 81, 109-162	40.5	17608
280	Synthetic electric fields and phonon damping in carbon nanotubes and graphene. *Physical Review B*, **2009**, 80,	3.3	45
279	Scattering of electrons in graphene by clusters of impurities. *Physical Review B*, **2009**, 79,	3.3	91

278	Impurity-induced spin-orbit coupling in graphene. *Physical Review Letters*, **2009**, 103, 026804	7.4	415
277	Image potential states in graphene. *Physical Review B*, **2009**, 80,	3.3	129
276	Spin-orbit-mediated spin relaxation in graphene. *Physical Review Letters*, **2009**, 103, 146801	7.4	210
275	Periodically rippled graphene: growth and spatially resolved electronic structure. *Physical Review Letters*, **2008**, 100, 056807	7.4	528
274	Bilayer graphene: gap tunability and edge properties. *Journal of Physics: Conference Series*, **2008**, 129, 012002	0.3	26
273	Ferromagnetism and Disorder in Graphene. *Mathematics in Industry*, **2008**, 483-487	0.2	1
272	Intrinsic atomic-scale modulations of the superconducting gap of 2HNbSe2. *Physical Review B*, **2008**, 77,	3.3	74
271	Electronic properties of bilayer and multilayer graphene. *Physical Review B*, **2008**, 78,	3.3	235
270	Substrate-limited electron dynamics in graphene. *Physical Review B*, **2008**, 77,	3.3	382
269	Vquez de Parga et al. Reply:. *Physical Review Letters*, **2008**, 101,	7.4	18
268	Pseudomagnetic fields and ballistic transport in a suspended graphene sheet. *Physical Review Letters*, **2008**, 101, 226804	7.4	127
267	Electrostatic interactions between graphene layers and their environment. *Physical Review B*, **2008**, 77,	3.3	115
266	Transport Through a Graphene Transistor. *Mathematics in Industry*, **2008**, 494-498	0.2	
265	Localized states at zigzag edges of bilayer graphene. *Physical Review Letters*, **2008**, 100, 026802	7.4	121
264	Electron-electron interactions and charging effects in graphene quantum dots. *Physical Review B*, **2008**, 77,	3.3	74
263	Midgap states and charge inhomogeneities in corrugated graphene. *Physical Review B*, **2008**, 77,	3.3	269
262	Dirac-point engineering and topological phase transitions in honeycomb optical lattices. *New Journal of Physics*, **2008**, 10, 103027	2.9	149
261	Surface dissipation in nanoelectromechanical systems: Unified description with the standard tunneling model and effects of metallic electrodes. *Physical Review B*, **2008**, 77,	3.3	60

260	Transport through evanescent waves in ballistic graphene quantum dots. *Physical Review B*, **2008**, 78,	3.3	35
259	Conductance of p-n-p graphene structures with "air-bridge" top gates. *Nano Letters*, **2008**, 8, 1995-9	11.5	155
258	Gauge field induced by ripples in graphene. *Physical Review B*, **2008**, 77,	3.3	197
257	Effect of electron-electron interaction on the Fermi surface topology of doped graphene. *Physical Review B*, **2008**, 77,	3.3	39
256	Interactions and magnetism in graphene boundary states. *Physical Review Letters*, **2008**, 101, 036803	7.4	45
255	Phase diagram of the dissipative quantum particle in a box. *Physical Review B*, **2008**, 78,	3.3	3
254	Stacking faults, bound states, and quantum Hall plateaus in crystalline graphite. *Physical Review B*, **2008**, 78,	3.3	32
253	Models of Electron Transport in Single Layer Graphene. *Journal of Low Temperature Physics*, **2008**, 153, 359-373	1.3	45
252	Magnetic field effects in carbon nanotubes. *Journal of Physics Condensed Matter*, **2007**, 19, 395017	1.8	17
251	Transmission through a biased graphene bilayer barrier. *Physical Review B*, **2007**, 76,	3.3	117
250	Charge distribution and screening in layered graphene systems. *Physical Review B*, **2007**, 75,	3.3	130
249	Existence and topological stability of Fermi points in multilayered graphene. *Physical Review B*, **2007**, 75,	3.3	198
248	Electronic properties of stacks of graphene layers. *Solid State Communications*, **2007**, 143, 116-122	1.6	51
247	Decoherence due to one-dimensional metallic environments. *Physica E: Low-Dimensional Systems and Nanostructures*, **2007**, 40, 1-4	3	5
246	Substrate-induced bandgap opening in epitaxial graphene. *Nature Materials*, **2007**, 6, 770-5	27	1883
245	Coulomb blockade in graphene nanoribbons. *Physical Review Letters*, **2007**, 99, 166803	7.4	265
244	Transverse transport in graphite. *European Physical Journal: Special Topics*, **2007**, 148, 73-81	2.3	5
243	Interaction effects in single layer and multi-layer graphene. *European Physical Journal: Special Topics*, **2007**, 148, 117-125	2.3	16

242	Spin relaxation times in disordered graphene. *European Physical Journal: Special Topics*, **2007**, 148, 177-181	2.3	41
241	Spin polarized current and Andreev transmission in planar superconducting/ferromagnetic Nb/Ni junctions. *New Journal of Physics*, **2007**, 9, 34-34	2.9	4
240	Pseudodiffusive magnetotransport in graphene. *Physical Review B*, **2007**, 75,	3.3	42
239	Transport regimes in surface disordered graphene sheets. *Physical Review B*, **2007**, 75,	3.3	46
238	Quantum Hall effect in carbon nanotubes and curved graphene strips. *Physical Review B*, **2007**, 76,	3.3	28
237	Fermi liquid theory of a Fermi ring. *Physical Review B*, **2007**, 75,	3.3	59
236	Dissipation due to two-level systems in nano-mechanical devices. *Europhysics Letters*, **2007**, 78, 60002	1.6	30
235	Orthogonality catastrophe and Kondo effect in graphene. *Physical Review B*, **2007**, 76,	3.3	130
234	Biased bilayer graphene: semiconductor with a gap tunable by the electric field effect. *Physical Review Letters*, **2007**, 99, 216802	7.4	1524
233	Electronic transport in graphene: A semiclassical approach including midgap states. *Physical Review B*, **2007**, 76,	3.3	442
232	Electron-phonon coupling and Raman spectroscopy in graphene. *Physical Review B*, **2007**, 75,	3.3	151
231	Dissipation in graphene and nanotube resonators. *Physical Review B*, **2007**, 76,	3.3	47
230	Many body effects on c-axis properties: Out of plane coherence and bilayer splitting. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 27-31	3.9	
229	Interactions, disorder and local defects in graphite. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 562-566	3.9	7
228	Drawing conclusions from graphene. *Physics World*, **2006**, 19, 33-37	0.5	170
227	Dissipation-driven quantum phase transitions in a Tomonaga-Luttinger liquid electrostatically coupled to a metallic gate. *Physical Review Letters*, **2006**, 97, 076401	7.4	29
226	Entanglement and dephasing of quantum dissipative systems. *Physical Review A*, **2006**, 73,	2.6	15
225	Electron-electron interactions and the phase diagram of a graphene bilayer. *Physical Review B*, **2006** , 73,	3.3	182

224	Self-energy corrections to anisotropic Fermi surfaces. *Physical Review B*, **2006**, 74,	3.3	8
223	Edge and surface states in the quantum Hall effect in graphene. *Physical Review B*, **2006**, 73,	3.3	143
222	Deformation of anisotropic Fermi surfaces due to electron-electron interactions. *Europhysics Letters*, **2006**, 76, 1165-1171	1.6	2
221	Spin-orbit coupling in curved graphene, fullerenes, nanotubes, and nanotube caps. *Physical Review B*, **2006**, 74,	3.3	795
220	Electronic states and Landau levels in graphene stacks. *Physical Review B*, **2006**, 73,	3.3	525
219	Intervalley scattering, long-range disorder, and effective time-reversal symmetry breaking in graphene. *Physical Review Letters*, **2006**, 97, 196804	7.4	355
218	Mean-field theory for double perovskites: Coupling between itinerant electron spins and localized spins. *Physical Review B*, **2006**, 74,	3.3	28
217	Electronic properties of graphene multilayers. *Physical Review Letters*, **2006**, 97, 266801	7.4	240
216	Dirac fermion confinement in graphene. *Physical Review B*, **2006**, 73,	3.3	127
215	Interactions and Disorder in 2D Graphite Sheets **2006**, 353-370		2
214	Electronic properties of two-dimensional carbon. *Annals of Physics*, **2006**, 321, 1559-1567	2.5	39
213	Density of states and transport properties of a diluted honeycomb lattice. *Physica B: Condensed Matter*, **2006**, 378-380, 278-280	2.8	
212	Conductance quantization in mesoscopic graphene. *Physical Review B*, **2006**, 73,	3.3	289
211	Disorder induced localized States in graphene. *Physical Review Letters*, **2006**, 96, 036801	7.4	491
210	Dynamical polarization of graphene at finite doping. *New Journal of Physics*, **2006**, 8, 318-318	2.9	845
209	Interplay between exchange interactions and charging effects in metallic grains. *European Physical Journal B*, **2006**, 54, 309-314	1.2	2
208	Electronic properties of disordered two-dimensional carbon. *Physical Review B*, **2006**, 73,	3.3	1190
207	Disorder and interaction effects in two-dimensional graphene sheets. *Physical Review B*, **2005**, 71,	3.3	72

206	Coulomb interactions and ferromagnetism in pure and doped graphene. *Physical Review B*, **2005**, 72,	3.3	198
205	Local defects and ferromagnetism in graphene layers. *Physical Review B*, **2005**, 72,	3.3	283
204	Application of the pseudofermion dynamical theory to the properties of quasi-1D compounds. *Physica B: Condensed Matter*, **2005**, 359-361, 1427-1429	2.8	
203	Statistics of infections with diversity in the pathogenicity. *Biophysical Chemistry*, **2005**, 115, 181-5	3.5	2
202	Electronic dephasing in wires due to metallic gates. *Physical Review B*, **2005**, 71,	3.3	10
201	Fixed points of the dissipative Hofstadter model. *Physical Review Letters*, **2005**, 94, 170401	7.4	4
200	Many-body effects in finite metallic carbon nanotubes. *Physical Review Letters*, **2005**, 94, 116804	7.4	6
199	Electron backscattering from dynamical impurities in a Luttinger liquid. *Physical Review B*, **2005**, 72,	3.3	9
198	Superconducting nanostructures fabricated with the scanning tunnelling microscope. *Journal of Physics Condensed Matter*, **2004**, 16, R1151-R1182	1.8	34
197	Assisted hopping in the Anderson impurity model: A flow equation study. *Physical Review B*, **2004**, 69,	3.3	10
196	Entanglement at the boundary of spin chains near a quantum critical point and in systems with boundary critical points. *Physical Review A*, **2004**, 70,	2.6	12
195	Magnetoresistance of itinerant electrons interacting with local spins. *Physical Review B*, **2004**, 70,	3.3	1
194	Superconductivity in electron-doped cuprates: Gap shape change and symmetry crossover with doping. *Physical Review B*, **2004**, 69,	3.3	11
193	Electronic lifetimes in ballistic quantum dots electrostatically coupled to metallic environments. *Physical Review B*, **2004**, 70,	3.3	14
192	Orbital ordering and magnetic structures in Sr2LaxFeMoO6 and Sr2LaxFeWO6 double perovskites. *Physical Review B*, **2004**, 70,	3.3	4
191	Quantum electrodynamic fluctuations of the macroscopic Josephson phase. *Annals of Physics*, **2004** , 310, 127-154	2.5	10
190	Assisted hopping and interaction effects in impurity models. *Physical Review B*, **2004**, 70,	3.3	7
189	Superconductivity driven by chain coupling and electronic correlations. *Europhysics Letters*, **2004**, 68, 839-845	1.6	8

188	Quantum Chinos game: winning strategies through quantum fluctuations. *Journal of Physics A*, **2003**, 36, L197-L204		12
187	Anisotropic pairing with repulsive interactions in a model with different orbitals per site. *European Physical Journal B*, **2003**, 36, 519-523	1.2	1
186	Low-temperature properties of a quantum particle coupled to dissipative environments. *Physical Review B*, **2003**, 67,	3.3	12
185	Single-channel transmission in gold one-atom contacts and chains. *Physical Review B*, **2003**, 67,	3.3	24
184	Phase diagram and influence of defects in the double perovskites. *Physical Review B*, **2003**, 67,	3.3	61
183	Effect of assisted hopping on the formation of local moments in magnetic impurities and quantum dots. *Physical Review B*, **2003**, 67,	3.3	10
182	Granular systems in the Coulomb blockade regime. *Physical Review B*, **2003**, 68,	3.3	10
181	Interlayer hopping properties of electrons in layered metals. *Physical Review B*, **2003**, 68,	3.3	9
180	Influence of external information in the minority game. *Physical Review E*, **2003**, 68, 066108	2.4	2
179	Coherence and Coulomb blockade in single-electron devices: A unified treatment of interaction effects. *Physical Review B*, **2003**, 68,	3.3	14
178	Phase separation in diluted magnetic semiconductor quantum wells. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 12, 388-390	3	
177	Properties of electrons near a Van Hove singularity. *Journal of Physics and Chemistry of Solids*, **2002**, 63, 2295-2297	3.9	11
176	Confinement of electrons in layered metals. *Physical Review Letters*, **2002**, 89, 166401	7.4	17
175	Electronic susceptibilities in systems with anisotropic Fermi surfaces. *Physical Review B*, **2002**, 66,	3.3	7
174	Direct current through a superconducting two-barrier system. *Physical Review B*, **2002**, 65,	3.3	3
173	Aharonov-Bohm oscillations of a particle coupled to dissipative environments. *Physical Review B*, **2002**, 65,	3.3	33
172	Order in driven vortex lattices in superconducting Nb films with nanostructured pinning potentials. *Physical Review B*, **2002**, 65,	3.3	30
171	First-order transition and phase separation in pyrochlores with colossal magnetoresistance. *Physical Review B*, **2002**, 66,	3.3	9

170	Proximity effect and strong-coupling superconductivity in nanostructures built with an STM. *Physical Review B*, **2002**, 65,	3.3	32
169	Exchange instability of the two-dimensional electron gas in semiconductor quantum wells. *Physical Review B*, **2002**, 65,	3.3	20
168	Energy radiation of moving cracks. *Physical Review B*, **2002**, 66,	3.3	8
167	Interplay between double-exchange, superexchange, and Lifshitz localization in doped manganites. *Physical Review B*, **2002**, 66,	3.3	39
166	First-order transitions in double exchange materials. *Journal of Magnetism and Magnetic Materials*, **2001**, 226-230, 849-850	2.8	
165	Spin Dependent Tunneling **2001**, 159-171		2
164	Monte Carlo determination of the phase diagram of the double-exchange model. *Physical Review B*, **2001**, 64,	3.3	34
163	Variational mean-field approach to the double-exchange model. *Physical Review B*, **2001**, 63,	3.3	40
162	Josephson coupling through a quantum dot. *Physical Review B*, **2001**, 64,	3.3	43
161	Surface effects in two-band superconductors: Application to MgB2. *Physical Review B*, **2001**, 64,	3.3	27
160	Partially filled stripes in the two-dimensional Hubbard model: Statics and dynamics. *Physical Review B*, **2001**, 64,	3.3	4
159	Discontinuous transitions in double-exchange materials. *Physical Review B*, **2001**, 63,	3.3	34
158	Electron-electron interactions in graphene sheets. *Physical Review B*, **2001**, 63,	3.3	203
157	Hybrid Monte Carlo algorithm for the double exchange model. *Nuclear Physics B*, **2001**, 596, 587-610	2.8	96
156	Fermi Edge Singularities in Transport Through Quantum Dots **2001**, 185-188		
155	Dynamics of holes and universality class of the antiferromagnetic transition in the two-dimensional Hubbard model. *Solid State Communications*, **2000**, 113, 593-597	1.6	6
154	Intergranular Coulomb barriers in thin films of magnetoresistive manganites. *Thin Solid Films*, **2000**, 373, 94-97	2.2	1
153	LEARNING, COMPETITION AND COOPERATION IN SIMPLE GAMES. *International Journal of Theoretical and Applied Finance*, **2000**, 03, 463-464	0.5	1

152	Andreev scattering in nanoscopic junctions in a magnetic field. *Europhysics Letters*, **2000**, 50, 749-755	1.6	25
151	Straight cracks in dynamic brittle fracture. *Physical Review B*, **2000**, 61, 11472-11486	3.3	10
150	Coulomb blockade versus intergrain resistance in colossal magnetoresistive manganite granular films. *Physical Review B*, **2000**, 61, 9549-9552	3.3	75
149	Phase diagram of diluted magnetic semiconductor quantum wells. *Physical Review Letters*, **2000**, 85, 2384-7	7.4	40
148	Kinematics of electrons near a van hove singularity. *Physical Review Letters*, **2000**, 84, 4930-3	7.4	30
147	Nonequilibrium effects in transport through quantum dots. *Physical Review B*, **2000**, 61, 16778-16786	3.3	26
146	Phase separation and enhanced charge-spin coupling near magnetic transitions. *Physical Review B*, **2000**, 62, 391-401	3.3	31
145	Inhomogeneous structures in the t□? Hubbard model. *Physical Review B*, **2000**, 62, 11312-11315	3.3	14
144	Nanosized Superconducting Constrictions in High Magnetic Fields **2000**, 315-315		
143	Configuration-interaction approach to hole pairing in the two-dimensional Hubbard model. *Physical Review B*, **1999**, 59, 14005-14016	3.3	19
142	Phase separation in double-exchange systems. *Physical Review B*, **1999**, 59, 13569-13572	3.3	28
141	ANISOTROPIC FERMI SURFACES AND KOHN□UTTINGER SUPERCONDUCTIVITY IN TWO DIMENSIONS. *International Journal of Modern Physics B*, **1999**, 13, 2545-2572	1.1	3
140	Marginal-Fermi-liquid behavior from two-dimensional Coulomb interaction. *Physical Review B*, **1999**, 59, R2474-R2477	3.3	364
139	Surface electronic structure and magnetic properties of doped manganites. *Physical Review B*, **1999**, 60, 6698-6704	3.3	116
138	Competition, efficiency and collective behavior in the □l Farol□bar model. *European Physical Journal B*, **1999**, 10, 187-191	1.2	30
137	Linear stability analysis of the Hele-Shaw cell with lifting plates. *European Physical Journal B*, **1998**, 1, 123-127	1.2	25
136	Hole pairs in the two-dimensional Hubbard model. *Europhysics Letters*, **1998**, 44, 229-234	1.6	6
135	Intrinsic frustration effects in anisotropic superconductors. *Physical Review B*, **1998**, 58, 6622-6627	3.3	3

134	Viscous effects in brittle fracture. *Physical Review B*, **1998**, 57, R13981-R13984	3.3	7
133	Electron-Hole Coherence and Charging Effects in Ultrasmall Metallic Grains. *Physical Review Letters*, **1998**, 80, 1046-1049	7.4	7
132	Spin-flip scattering in magnetic junctions. *Physical Review B*, **1998**, 58, 9212-9216	3.3	154
131	Superconductivity, Josephson Coupling, and Order Parameter Symmetry in Striped Cuprates. *Physical Review Letters*, **1998**, 80, 4040-4043	7.4	31
130	Nonequilibrium electronic distribution in single-electron devices. *Physical Review B*, **1998**, 57, 1398-1401	3.3	3
129	Nanosized superconducting constrictions. *Physical Review B*, **1998**, 58, 11173-11176	3.3	31
128	Mechanism for persistent current in mesoscopic normal rings based on quantum Luttinger solitons. *Physical Review B*, **1998**, 57, 6612-6617	3.3	7
127	Some aspects of the phase diagram of double-exchange systems. *Physical Review B*, **1998**, 58, 9150-9155	3.3	98
126	Superconducting, Ferromagnetic and Antiferromagnetic Phases in thet-t?Hubbard Model. *Journal of the Physical Society of Japan*, **1998**, 67, 1868-1871	1.5	36
125	Quantum dissipative systems **1998**,		1
124	Instabilities of the Hubbard chain in a magnetic field. *Physical Review B*, **1997**, 55, 7565-7578	3.3	14
123	Ferromagnetism in the Two Dimensional t□? Hubbard Model at the Van Hove Density. *Physical Review Letters*, **1997**, 78, 1343-1346	7.4	116
122	Flux-flow resistivity and vortex viscosity of high-Tc films near Tc. *Physical Review B*, **1997**, 55, 5659-5662	3.3	3
121	Point-contact spectroscopy on URu2Si2. *Physical Review B*, **1997**, 55, 14318-14322	3.3	38
120	Instability of Anisotropic Fermi Surfaces in Two Dimensions. *Physical Review Letters*, **1997**, 79, 3514-3517	7.4	26
119	Integer and fractional charge solitons in modulated strips in the fractional quantum Hall regime. *Physical Review B*, **1997**, 55, 2401-2405	3.3	2
118	Quantum dissipative systems **1997**, 249-260		
117	Renormalization group approach to the normal state of copper-oxide superconductors. *Nuclear Physics B*, **1997**, 485, 694-724	2.8	37

116	Phase diagram of a dissipative quantum rotor. *Nuclear Physics B*, **1997**, 487, 795-803	2.8	4
115	Renormalization group analysis of electrons near a van Hove singularity. *Europhysics Letters*, **1996**, 34, 711-716	1.6	51
114	Unconventional Quasiparticle Lifetime in Graphite. *Physical Review Letters*, **1996**, 77, 3589-3592	7.4	199
113	Momentum dependence of the spin and charge excitations in the two dimensional Hubbard model. *Zeitschrift F□ Physik B-Condensed Matter*, **1996**, 101, 283-288		
112	Nonlinear dynamics of vortices in superconductors with short coherence length. *Physical Review B*, **1996**, 53, 6725-6728	3.3	5
111	Non fermi liquid behavior in semimetals. Applications to the fullerenes. *Journal of Low Temperature Physics*, **1995**, 99, 287-292	1.3	12
110	Growth instabilities in mechanical breakdown under mechanical and thermal stresses. *Physical Review E*, **1995**, 52, 6476-6483	2.4	
109	Vortex viscosity in superconductors with short coherence length. *Physical Review Letters*, **1995**, 74, 462-465	7.4	21
108	Asymptotic Tunnelling Conductance in Luttinger Liquids. *Europhysics Letters*, **1995**, 30, 561-566	1.6	32
107	Hartree Fock and RPA Studies of the Hubbard Model. *NATO ASI Series Series B: Physics*, **1995**, 295-302		
106	Effect of Disorder on Several Properties of the One-Band Hubbard Model in 2D. *NATO ASI Series Series B: Physics*, **1995**, 341-348		
105	New advances in Laplacian growth models. *Lecture Notes in Physics*, **1995**, 250-258	0.8	
104	The Wavefunction Renormalization Constant for the One- and Two-Band Hubbard Hamiltonians in Two Dimensions. *NATO ASI Series Series B: Physics*, **1995**, 349-356		
103	VARIATIONS ON THE THEME OF DIFFUSION-LIMITED GROWTH. *Modern Physics Letters B*, **1994**, 08, 1739-1758	1.6	3
102	Ground state of the U=. *Physical Review B*, **1994**, 49, 15400-15403	3.3	13
101	Sub-Coulomb-gap conductance in small tunnel junctions. *Physical Review B*, **1994**, 49, 5722-5725	3.3	4
100	Shake-up effects and intermolecular tunneling in C60 ions. *Physical Review B*, **1994**, 50, 5752-5755	3.3	4
99	Growth instabilities in mechanical breakdown. *Physical Review E*, **1994**, 49, R994-R996	2.4	3

98	Low energy processes in small tunnel junctions. *Physica B: Condensed Matter*, **1994**, 203, 440-443	2.8	2
97	Non-Fermi liquid behavior of electrons in the half-filled honeycomb lattice (A renormalization group approach). *Nuclear Physics B*, **1994**, 424, 595-618	2.8	453
96	THEORETICAL ASPECTS OF FULLERENES. *International Journal of Modern Physics B*, **1993**, 07, 4331-4352	1.1	9
95	ELECTROSTATIC SCREENING IN FULLERENE MOLECULES. *Modern Physics Letters B*, **1993**, 07, 1593-1599	1.6	24
94	Complexity and Criticality in Laplacian Growth Models. *Europhysics Letters*, **1993**, 24, 701-705	1.6	
93	Growth and forms of Laplacian aggregates. *Physical Review E*, **1993**, 48, 1296-1304	2.4	22
92	Multiple-polaron description of the wave function of a single hole in Hubbard clusters of the square lattice. *Physical Review B*, **1993**, 48, 9581-9585	3.3	6
91	Luttinger liquids in higher dimensions. *Physical Review B*, **1993**, 47, 501-504	3.3	22
90	Wave-function renormalization constant for the one-band Hubbard Hamiltonian in two dimensions. *Physical Review B*, **1993**, 48, 426-436	3.3	9
89	Pattern formation in screened electrostatic fields: Growth in a channel and in two dimensions. *Physical Review E*, **1993**, 47, 2729-2735	2.4	5
88	Ground-state properties of the U=. *Physical Review B*, **1993**, 48, 16539-16546	3.3	10
87	Electronic interactions in fullerene spheres. *Physical Review B*, **1993**, 47, 16576-16581	3.3	10
86	The electronic spectrum of fullerenes from the Dirac equation. *Nuclear Physics B*, **1993**, 406, 771-794	2.8	223
85	Self Organized Criticality in Simple Growth Models. *NATO ASI Series Series B: Physics*, **1993**, 213-219		
84	Pattern Formation in Screened Electrostatic Fields: Growth in a Channel and in two Dimensions. *NATO ASI Series Series B: Physics*, **1993**, 203-212		
83	Spin and Charge Excitations Induced by Holes in the Hubbard Model. *Europhysics Letters*, **1992**, 17, 455-467	2.8	8
82	Collapse of the wave packet and chaos in a model with classical and quantum degrees of freedom. *Physical Review A*, **1992**, 45, 7718-7728	2.6	37
81	Exact momentum distribution of the U=. *Physical Review B*, **1992**, 46, 3506-3509	3.3	8

80	Unrestricted Hartree-Fock study of the two-band Hamiltonian in doped CuO2 planes. *Physical Review B*, **1992**, 46, 3562-3572	3.3	25
79	Heating effects and Coulomb blockade in small tunnel junctions. *Physical Review B*, **1992**, 46, 571-574	3.3	8
78	Excitations and response functions of the doped two-dimensional Hubbard model: A random-phase-approximation anaylsis. *Physical Review B*, **1992**, 45, 4752-4758	3.3	14
77	Pattern formation in screened electrostatic fields. *Physical Review Letters*, **1992**, 68, 209-212	7.4	15
76	Nonconventional behavior of the one-band Hubbard Hamiltonian in two dimensions. *Physical Review B*, **1992**, 46, 3163-3166	3.3	13
75	Continuum approximation to fullerene molecules. *Physical Review Letters*, **1992**, 69, 172-175	7.4	168
74	Analysis of the New Unrestricted Hartree-Fock Vortex Solution of the Hubbard Hamiltonian in Two-Dimensional Systems A Small-Cluster Study. *Physica Status Solidi (B): Basic Research*, **1992**, 173, 715-724	1.3	5
73	On the fractal characteristics of the □model. *Physica A: Statistical Mechanics and Its Applications*, **1992**, 191, 123-127	3.3	5
72	Many-body Effects in Mesoscopic Double Junctions **1992**, 307-312		
71	Holes and Magnetic Textures in the One-and Two-Band Hamiltonians for CuO2Planes of HighTcSuperconductors. *Physica Scripta*, **1991**, T39, 140-147	2.6	8
70	Reduction of the wavepacket through classical variables. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1991**, 271, 196-200	4.2	16
69	Conductance anomalies of small tunnel junctions inside the Coulomb gap. *European Physical Journal B*, **1991**, 85, 413-419	1.2	21
68	Holes and Magnetic Textures in the Two-Dimensional Hubbard Model. *Europhysics Letters*, **1991**, 14, 157-163	1.6	39
67	Holes and magnetic textures in the two-dimensional Hubbard model. *Physical Review B*, **1991**, 43, 6099-6108	3.3	124
66	Elastic properties of an inhomogeneously diluted isotropic medium. *Physical Review B*, **1991**, 44, 9704-9707	3.3	1
65	Fractures, Fractals and Foreign Physics. *Physics Today*, **1991**, 44, 13-13	0.9	6
64	Crack Formation: Crossovers between Different Growth Regimes and Critical Behavior. *NATO ASI Series Series B: Physics*, **1991**, 361-367		
63	Scanning tunneling microscopy, resonant tunneling, and counting electrons: A quantum standard of current. *Physical Review Letters*, **1990**, 65, 281-284	7.4	23

62	Current distributions in anisotropic superconductors in the presence of grain boundaries. *Physical Review B*, **1990**, 41, 4733-4735	3.3	2
61	Crossover between different growth regimes in crack formation. *Physical Review A*, **1990**, 42, 3670-3673	2.6	17
60	Electromagnetic properties of stacks of superconducting layers. *Physical Review B*, **1990**, 42, 6244-6248	3.3	14
59	Properties of elastic percolating networks in isotropic media with arbitrary elastic constants. *Physical Review B*, **1990**, 41, 11449-11456	3.3	7
58	Self-organized criticality in Laplacian growth. *Physical Review A*, **1990**, 42, 6270-6273	2.6	6
57	Surface Green function approach to the calculation of tunnelling currents in normal metal-superconductor junctions. *Journal of Physics Condensed Matter*, **1990**, 2, 4143-4152	1.8	1
56	Simple Stochastic Models for Material Failure. *NATO ASI Series Series B: Physics*, **1990**, 119-140		4
55	Twins and anisotropies of the superconducting order parameter in YBa2Cu3O7. *Physical Review B*, **1989**, 40, 9362-9365	3.3	2
54	A simple two-dimensional model for crack propagation. *Journal of Physics A*, **1989**, 22, 1393-1403		74
53	Fracture as a growth process. *Physica D: Nonlinear Phenomena*, **1989**, 38, 235-241	3.3	27
52	Phenomenological description of a superconductor with an anisotropic order parameter. *Physica C: Superconductivity and Its Applications*, **1988**, 153-155, 673-674	1.3	1
51	Quantum fluctuations in normal metal-superconductor and superconductor-normal metal-superconductor devices. *Physica B: Condensed Matter*, **1988**, 152, 165-171	2.8	18
50	Real space renormalization group study of Cu-O planes with Coulomb repulsion. *Physica C: Superconductivity and Its Applications*, **1988**, 153-155, 1231-1232	1.3	2
49	Percolation in isotropic elastic media. *Physical Review Letters*, **1988**, 60, 124-127	7.4	24
48	Garcia-Molina, Guinea, and Louis reply. *Physical Review Letters*, **1988**, 61, 2503	7.4	2
47	Theory of tunneling in metal-superconductor devices: Supercurrents in the superconductor gap at zero temperature. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1988**, 6, 323-326	2.9	9
46	Crack growth in a plastic medium. *Journal of Physics A*, **1988**, 21, L1079-L1083		10
45	Random and dendritic patterns in crack propagation. *Journal of Physics A*, **1988**, 21, L301-L305		22

44	Elastic Strains and Enhanced Critical Temperature in Copper-Oxide Superconductors. *Europhysics Letters*, **1988**, 7, 549-553	1.6	14
43	Anomalous Low Temperature Behavior of Tunneling Atoms in Metals. *Physica Scripta*, **1987**, T19B, 573-577	2.6	
42	The Fractal Nature of Fracture. *Europhysics Letters*, **1987**, 3, 871-877	1.6	129
41	Localization and topological disorder. *Physical Review B*, **1987**, 35, 979-986	3.3	57
40	Bulk and surface diffusion of heavy particles in metals: A path-integral approach. *Physical Review B*, **1987**, 36, 7775-7785	3.3	26
39	Dynamics and phase transitions of Josephson junctions with dissipation due to quasiparticle tunneling. *Journal of Low Temperature Physics*, **1987**, 69, 219-243	1.3	72
38	Geometric structure of ion-induced displacement cascades in solids. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1987**, 126, 136-140	2.3	8
37	Bloch Oscillations and Phase Transitions of Josephson Junctions with Dissipation due to Quasiparticle Tunneling. *Japanese Journal of Applied Physics*, **1987**, 26, 1623	1.4	2
36	Bloch oscillations and the dissipative phase transition in Josephson junctions **1986**, 169-181		
35	Evolution of ion beam damage in solids, and the fractal concept. *Nuclear Instruments & Methods in Physics Research B*, **1986**, 18, 402-406	1.2	6
34	Shape of Solitons in Classically Forbidden States: "Lorentz Expansion". *Physica Scripta*, **1986**, 33, 282-283	2.6	3
33	Low temperature behavior of a tunneling atom interacting with a degenerate electron gas. *Physical Review Letters*, **1986**, 57, 2337-2340	7.4	86
32	Coherent Charge Oscillations in Tunnel Junctions. *Europhysics Letters*, **1986**, 1, 585-593	1.6	103
31	Diffusion and localization of a particle in a periodic potential coupled to a dissipative environment. *Physical Review Letters*, **1985**, 54, 263-266	7.4	173
30	Critical behaviour of dissipative quantum systems **1985**, 75-81		
29	Bosonization of a two-level system with dissipation. *Physical Review B*, **1985**, 32, 4410-4418	3.3	143
28	Dynamics of a particle in an external potential interacting with a dissipative environment. *Physical Review B*, **1985**, 32, 7518-7523	3.3	56
27	Dynamics of simple dissipative systems. *Physical Review B*, **1985**, 32, 4486-4491	3.3	35

26	Schottky barrier formation. II. Etched metal-semiconductor junctions. *Journal of Physics C: Solid State Physics*, **1984**, 17, 2039-2047		7
25	Dynamics of polyacetylene chains. *Physical Review B*, **1984**, 30, 1884-1890	3.3	53
24	Friction and Particle-Hole Pairs. *Physical Review Letters*, **1984**, 53, 1268-1271	7.4	80
23	Two-state system coupled to phonons: A renormalization-group analysis of the transition. *Physical Review B*, **1984**, 30, 464-466	3.3	48
22	Non local force constants due to electron-phonon coupling in a charged graphite layer. *Solid State Communications*, **1984**, 49, 269-272	1.6	4
21	Scaling relations in the equation of state, thermal expansion, and melting of metals. *Applied Physics Letters*, **1984**, 44, 53-55	3.4	96
20	Universal features of the equation of state of metals. *Physical Review B*, **1984**, 29, 2963-2969	3.3	1225
19	Electron-phonon scattering in polyparaphenylene. *Physical Review B*, **1983**, 28, 2183-2190	3.3	13
18	Charge states for protons moving in an electron gas: intra-atomic correlation and surface effects. *Journal of Physics C: Solid State Physics*, **1983**, 16, 809-815		5
17	Local many-body effects in one dimension. *Journal of Physics C: Solid State Physics*, **1983**, 16, 4405-4413		9
16	MANY-BODY EFFECTS IN THE (111)-1 X 1 SURFACE OF HIGHLY DOPED SILICON. *Journal of Physics C: Solid State Physics*, **1983**, 16, L39-L43		8
15	Electron-phonon scattering in nonperiodic systems: The Si(111) surface. *Physical Review B*, **1983**, 27, 1432-1435	3.3	5
14	Band-structure effects and resistivity saturation. *Physical Review B*, **1983**, 28, 1148-1150	3.3	5
13	Schottky barrier formation. I. Abrupt metal-semiconductor junctions. *Journal of Physics C: Solid State Physics*, **1983**, 16, 6499-6512		49
12	Effective two-dimensional Hamiltonian at surfaces. *Physical Review B*, **1983**, 28, 4397-4402	3.3	225
11	Charge states for H and He moving in an electron gas. *Physical Review B*, **1982**, 25, 6109-6125	3.3	61
10	Auger linewidths for LILII,IIIV processes in Al, Mg and Na. *Journal of Physics C: Solid State Physics*, **1982**, 15, L1109-L1112		
9	Electron-phonon scattering in polyacetylene. *Journal of Physics C: Solid State Physics*, **1982**, 15, 241-249		5

8	Phonon contribution to electronic transport properties of semiconductors. *Journal of Physics C: Solid State Physics*, **1982**, 15, 755-765		5
7	Many-body effects in the (111)-silicon dangling-bond surface states. *Solid State Communications*, **1982**, 44, 1633-1636	1.6	26
6	Electron-phonon scattering in graphite intercalation compounds: a localised approach. *Journal of Physics C: Solid State Physics*, **1981**, 14, 3345-3354		21
5	Charge States for Protons Moving in an Electron Gas. *Physical Review Letters*, **1981**, 47, 604-607	7.4	46
4	Auger linewidths for core levels in light elements embedded in metals. *Journal of Physics C: Solid State Physics*, **1981**, 14, 2965-2976		6
3	Electron-phonon interaction in tetrahedrally bonded solids. *Journal of Physics C: Solid State Physics*, **1981**, 14, 3355-3363		10
2	Light impurities in a uniform electron gas. *Journal of Physics C: Solid State Physics*, **1980**, 13, 4137-4156		12
1	Many-body effects in semiconductors. *Journal of Physics C: Solid State Physics*, **1980**, 13, 5515-5527		12