Steve Patitsas

List of Publications by Year
in descending order

19 papers	384 citations	1163117 8 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	340 citing authors

#	Article	IF	Citations
1	Inducing Desorption of Organic Molecules with a Scanning Tunneling Microscope: Theory and Experiments. Physical Review Letters, 2000, 85, 5372-5375.	7.8	112
2	Covalent bonding of thiophenes to Si(111) by a halogenation/thienylation route1Issued as NRCC Publ. No. 40854.1. Chemical Physics Letters, 1998, 286, 508-514.	2.6	65
3	Current-induced organic moleculeâ€“silicon bond breaking: consequences for molecular devices. Surface Science, 2000, 457, L425-L431.	1.9	63
4	Effect of thermal annealing on the conduction- and valence-band quantum shifts in porous silicon. Physical Review B, 1994, 50, 2719-2722.	3.2	31
5	Quantum confinement effects in the soft X-ray fluorescence spectra of porous silicon nanostructures. Solid State Communications, 1996, 97, 549-552.	1.9	27
6	Resonant inelastic soft X-ray scattering at the Si L3 edge: experiment and theory. Journal of Electron Spectroscopy and Related Phenomena, 1998, 93, 245-250.	1.7	25
7	STM study of charge transfer and the role of rest-atoms in the binding of benzene to Si(111)7Ã—7. Surface Science, 2008, 602, 630-637.	1.9	14
8	Can MOND type hypotheses be tested in a free fall laboratory environment?. Physical Review D, 2013, 87, .	4.7	9
9	Softâ€“X-ray fluorescence of porous silicon: electronic structure of Si nanostructures. Europhysics Letters, 1997, 37, 133-138.	2.0	8
10	Site selective atomic chlorine adsorption on the Si(111)7Ã—7 surface. Surface Science, 2007, 601, L1-L5.	1.9	7
11	Soft X-ray emission of porous silicon nanostructures. Journal of Electron Spectroscopy and Related Phenomena, 1996, 79, 135-138.	1.7	4
12	Nonequilibrium phase transitions and pattern formation as consequences of second-order thermodynamic induction. Physical Review E, 2019, 100, 022116.	2.1	4
13	Stability analysis for axially-symmetric magnetic field levitation of a superconducting sphere. Physica C: Superconductivity and Its Applications, 2011, 471, 12-18.	1.2	3
14	Thermodynamic induction effects exhibited in nonequilibrium systems with variable kinetic coefficients. Physical Review E, 2014, 89, 012108.	2.1	3
15	Spectroscopic scanning tunnel microscopy of Clâ€“Si(111)7Ã—7: Determination of Clâ€“Si Ïƒ* resonance line shape. Journal of Vacuum Science & Technology B, 2009, 27, 895-902.	1.3	2
16	Thermodynamically induced particle transport: Order-by-induction and entropic trapping at the nano-scale. Physica A: Statistical Mechanics and Its Applications, 2015, 436, 604-628.	2.6	2
17	Electronic transport calculations showing electron-phonon separation in directions transverse to high current. Journal of Physics Communications, 2021, 5, 095007.	1.2	2
18	Onsager symmetry relations and ideal gas effusion: A detailed example. American Journal of Physics, 2014, 82, 123-134.	0.7	1

#	Article	IF	Citations
19	Cooling by Thermodynamic Induction. Journal of Low Temperature Physics, 2017, 186, 316-346.	1.4	1