

Pekka Koskinen

List of Publications by Year in descending order

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72
papers

4,742
citations

218592

26
h-index

95218

68
g-index

73
all docs

73
docs citations

73
times ranked

5773
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrastiff graphene. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	9
2	What do we do when we analyse the temporal aspects of computer-supported collaborative learning? A systematic literature review. <i>Educational Research Review</i> , 2021, 33, 100387.	4.1	26
3	Limits of lateral expansion in two-dimensional materials with line defects. <i>Physical Review Materials</i> , 2021, 5, .	0.9	1
4	The potential of temporal analysis: Combining log data and lag sequential analysis to investigate temporal differences between scaffolded and non-scaffolded group inquiry-based learning processes. <i>Computers and Education</i> , 2020, 143, 103674.	5.1	20
5	Rippling of two-dimensional materials by line defects. <i>Physical Review B</i> , 2020, 102, .	1.1	5
6	Free-standing 2D metals from binary metal alloys. <i>AIP Advances</i> , 2020, 10, 065327.	0.6	12
7	Making Graphene Luminescent by Direct Laser Writing. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8371-8377.	1.5	11
8	Stability limits of elemental 2D metals in graphene pores. <i>Nanoscale</i> , 2019, 11, 22019-22024.	2.8	27
9	Atlas for the properties of elemental two-dimensional metals. <i>Physical Review B</i> , 2018, 97, .	1.1	75
10	Primetime learning: collaborative and technology-enhanced studying with genuine teacher presence. <i>International Journal of STEM Education</i> , 2018, 5, 20.	2.7	12
11	Beyond ideal two-dimensional metals: Edges, vacancies, and polarizabilities. <i>Physical Review B</i> , 2018, 98, .	1.1	13
12	Optically Forged Diffraction-Unlimited Ripples in Graphene. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6179-6184.	2.1	10
13	Visualising the temporal aspects of collaborative inquiry-based learning processes in technology-enhanced physics learning. <i>International Journal of Science Education</i> , 2018, 40, 1697-1717.	1.0	24
14	Growth of two-dimensional Au patches in graphene pores: A density-functional study. <i>Computational Materials Science</i> , 2017, 131, 120-125.	1.4	22
15	Self-Consistent Charge Density-Functional Tight-Binding Parametrization for Pt–Ru Alloys. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2497-2502.	1.1	23
16	Optical Forging of Graphene into Three-Dimensional Shapes. <i>Nano Letters</i> , 2017, 17, 6469-6474.	4.5	29
17	From Seeds to Islands: Growth of Oxidized Graphene by Two-Photon Oxidation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22330-22341.	1.5	21
18	Quantum Simulations of One-Dimensional Nanostructures under Arbitrary Deformations. <i>Physical Review Applied</i> , 2016, 6, .	1.5	8

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19	Limits of stability in supported graphene nanoribbons subject to bending. <i>Physical Review B</i> , 2016, 93, .	1.1	5
20	Peeling of multilayer graphene creates complex interlayer sliding patterns. <i>Physical Review B</i> , 2015, 92, .	1.1	23
21	Plenty of motion at the bottom: atomically thin liquid gold membrane. <i>Nanoscale</i> , 2015, 7, 10140-10145.	2.8	31
22	Real-space Wigner-Seitz Cells Imaging of Potassium on Graphite via Elastic Atomic Manipulation. <i>Scientific Reports</i> , 2015, 5, 8276.	1.6	8
23	Simple metal under tensile stress: layer-dependent herringbone reconstruction of thin potassium films on graphite. <i>Scientific Reports</i> , 2015, 5, 10165.	1.6	5
24	Curvature in graphene nanoribbons generates temporally and spatially focused electric currents. <i>Nanoscale</i> , 2015, 7, 8627-8635.	2.8	17
25	Electromechanics of graphene spirals. <i>AIP Advances</i> , 2014, 4, 127125.	0.6	21
26	Graphene cardboard: From ripples to tunable metamaterial. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	16
27	Nanomechanical cleavage of molybdenum disulphide atomic layers. <i>Nature Communications</i> , 2014, 5, 3631.	5.8	144
28	Optical and electronic properties of graphene nanoribbons upon adsorption of ligand-protected aluminum clusters. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3558.	1.3	22
29	Density-Functional Tight-Binding Simulations of Curvature-Controlled Layer Decoupling and Band-Gap Tuning in Bilayer MoS_2 . <i>Physical Review Letters</i> , 2014, 112, 186802.	2.9	36
30	Electronic structure trends of Mn -decorated graphene nanoribbons from minimal-cell simulations. <i>Computational Materials Science</i> , 2014, 81, 264-268.	1.4	6
31	Topological Signatures in the Electronic Structure of Graphene Spirals. <i>Scientific Reports</i> , 2013, 3, 1632.	1.6	36
32	Modeling thiolate-protected gold clusters with density-functional tight-binding. <i>European Physical Journal D</i> , 2013, 67, 1.	0.6	26
33	Li^+ adsorption at prismatic graphite surfaces enhances interlayer cohesion. <i>Journal of Power Sources</i> , 2013, 239, 321-325.	4.0	10
34	Bending-induced delamination of van der Waals solids. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 395303.	0.7	16
35	Electron quantization in arbitrarily shaped gold islands on MgO thin films. <i>Physical Review B</i> , 2013, 88, .	1.1	26
36	Edge-stress-induced spontaneous twisting of graphene nanoribbons. <i>Journal of Applied Physics</i> , 2012, 111, 054302.	1.1	21

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37	Graphene nanoribbons subject to gentle bends. <i>Physical Review B</i> , 2012, 85, .	1.1	25
38	Twisting graphene nanoribbons into carbon nanotubes. <i>Physical Review B</i> , 2012, 85, .	1.1	75
39	Revised periodic boundary conditions: Fundamentals, electrostatics, and the tight-binding approximation. <i>Physical Review B</i> , 2011, 84, .	1.1	17
40	Electromechanics of twisted graphene nanoribbons. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	39
41	Production Lots as Determinant of Paper Production Lead Time Performance. , 2011, , 310-325.		0
42	Exploring the graphene edges with coherent electron focusing. <i>Physical Review B</i> , 2010, 81, .	1.1	36
43	Electronic and optical properties of carbon nanotubes under pure bending. <i>Physical Review B</i> , 2010, 82, .	1.1	21
44	Structural, chemical, and dynamical trends in graphene grain boundaries. <i>Physical Review B</i> , 2010, 81, .	1.1	184
45	Approximate modeling of spherical membranes. <i>Physical Review B</i> , 2010, 82, .	1.1	84
46	Efficient Approach for Simulating Distorted Materials. <i>Physical Review Letters</i> , 2010, 105, 106401.	2.9	24
47	Characterizing low-coordinated atoms at the periphery of MgO-supported Au islands using scanning tunneling microscopy and electronic structure calculations. <i>Physical Review B</i> , 2010, 81, .	1.1	67
48	Production Lots as Determinant of Paper Production Lead Time Performance. <i>International Journal of Information Systems and Supply Chain Management</i> , 2009, 2, 63-79.	0.6	2
49	Bright Beaches of Nanoscale Potassium Islands on Graphite in STM Imaging. <i>Physical Review Letters</i> , 2009, 102, 106102.	2.9	18
50	Comparison of Raman spectra and vibrational density of states between graphene nanoribbons with different edges. <i>European Physical Journal D</i> , 2009, 52, 71-74.	0.6	31
51	Supply chain strategy in a global paper manufacturing company: a case study. <i>Industrial Management and Data Systems</i> , 2009, 109, 34-52.	2.2	19
52	Density-functional tight-binding for beginners. <i>Computational Materials Science</i> , 2009, 47, 237-253.	1.4	324
53	Evidence for graphene edges beyond zigzag and armchair. <i>Physical Review B</i> , 2009, 80, .	1.1	274
54	Gold in graphene: In-plane adsorption and diffusion. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	93

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55	Understanding the microscopic processes that govern the charge-induced deformation of carbon nanotubes. <i>Physical Review B</i> , 2009, 80, .	1.1	11
56	Self-Passivating Edge Reconstructions of Graphene. <i>Physical Review Letters</i> , 2008, 101, 115502.	2.9	674
57	Raman spectra of single-walled carbon nanotubes with vacancies. <i>Physical Review B</i> , 2008, 77, .	1.1	26
58	Effect of bending on Raman-active vibration modes of carbon nanotubes. <i>Physical Review B</i> , 2008, 78, .	1.1	21
59	Supply chain challenges of Northâ€European paper industry. <i>Industrial Management and Data Systems</i> , 2008, 108, 208-227.	2.2	30
60	Liquid-Liquid Phase Coexistence in Gold Clusters: 2D or Not 2D?. <i>Physical Review Letters</i> , 2007, 98, 015701.	2.9	62
61	Size-Dependent Structural Evolution and Chemical Reactivity of Gold Clusters. <i>ChemPhysChem</i> , 2007, 8, 157-161.	1.0	197
62	Density-functional based tight-binding study of small gold clusters. <i>New Journal of Physics</i> , 2006, 8, 9-9.	1.2	72
63	Structural Relaxation Made Simple. <i>Physical Review Letters</i> , 2006, 97, 170201.	2.9	1,189
64	Oxidation of magnesia-supported Pd-clusters leads to the ultimate limit of epitaxy with a catalytic function. <i>Nature Materials</i> , 2006, 5, 44-47.	13.3	55
65	Charge fluctuations in coupled systems: Ring coupled to a wire or ring. <i>Physical Review B</i> , 2005, 72, .	1.1	2
66	Quantum rings for beginners: energy spectra and persistent currents. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 21, 1-35.	1.3	210
67	Four-wave mixing in coupled semiconductor quantum dots. <i>Solid State Communications</i> , 2003, 125, 529-532.	0.9	1
68	Single scatterings in single artificial atoms: Quantum coherence and entanglement. <i>Physical Review B</i> , 2003, 68, .	1.1	7
69	Persistent currents in small, imperfect Hubbard rings. <i>Physical Review B</i> , 2003, 68, .	1.1	12
70	Tight-Binding Model for Spontaneous Magnetism of Quantum Dot Lattices. <i>Physica Scripta</i> , 2003, 68, 74-78.	1.2	5
71	Fractional periodicity of persistent currents: A signature of broken internal symmetry. <i>Europhysics Letters</i> , 2003, 63, 846-852.	0.7	7
72	Low-energy spectrum and finite temperature properties of quantum rings. <i>European Physical Journal B</i> , 2002, 28, 483-489.	0.6	11