

# Peter Beton

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3410949/publications.pdf>

Version: 2024-02-01

248  
papers

11,690  
citations

24978

57  
h-index

32761

100  
g-index

256  
all docs

256  
docs citations

256  
times ranked

11340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling molecular deposition and layer structure with supramolecular surface assemblies. <i>Nature</i> , 2003, 424, 1029-1031.	13.7	1,076
2	Tuning the Bandgap of Exfoliated InSe Nanosheets by Quantum Confinement. <i>Advanced Materials</i> , 2013, 25, 5714-5718.	11.1	512
3	Vernier templating and synthesis of a 12-porphyrin nano-ring. <i>Nature</i> , 2011, 469, 72-75.	13.7	393
4	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020, 7, 022001.	2.0	333
5	High Broadband Photoresponsivity of Mechanically Formed InSe/Graphene van der Waals Heterostructures. <i>Advanced Materials</i> , 2015, 27, 3760-3766.	11.1	320
6	Atomic reconstruction in twisted bilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2020, 15, 592-597.	15.6	245
7	Supramolecular Assemblies on Surfaces: Nanopatterning, Functionality, and Reactivity. <i>ACS Nano</i> , 2018, 12, 7445-7481.	7.3	225
8	Random Tiling and Topological Defects in a Two-Dimensional Molecular Network. <i>Science</i> , 2008, 322, 1077-1081.	6.0	224
9	Resonant tunneling through the bound states of a single donor atom in a quantum well. <i>Physical Review Letters</i> , 1992, 68, 1754-1757.	2.9	213
10	Identifying carbon as the source of visible single-photon emission from hexagonal boron nitride. <i>Nature Materials</i> , 2021, 20, 321-328.	13.3	210
11	Templating molecular adsorption using a covalent organic framework. <i>Chemical Communications</i> , 2010, 46, 7157.	2.2	183
12	Assembly and Processing of Hydrogen Bond Induced Supramolecular Nanostructures. <i>Nano Letters</i> , 2003, 3, 9-12.	4.5	162
13	Direct band-gap crossover in epitaxial monolayer boron nitride. <i>Nature Communications</i> , 2019, 10, 2639.	5.8	162
14	Surface-Based Supramolecular Chemistry Using Hydrogen Bonds. <i>Accounts of Chemical Research</i> , 2014, 47, 3417-3427.	7.6	161
15	Fermi-edge singularity in resonant tunneling. <i>Physical Review Letters</i> , 1994, 72, 2061-2064.	2.9	160
16	Electron-concentration-dependent quantum-well luminescence: Evidence for a negatively charged exciton. <i>Physical Review B</i> , 1995, 51, 7969-7972.	1.1	149
17	Guest-induced growth of a surface-based supramolecular bilayer. <i>Nature Chemistry</i> , 2011, 3, 74-78.	6.6	142
18	Magnetoresistance of a two-dimensional electron gas in a strong periodic potential. <i>Physical Review B</i> , 1990, 42, 9229-9232.	1.1	136

#	ARTICLE	IF	CITATIONS
19	Bimolecular Networks and Supramolecular Traps on Au(111). Journal of Physical Chemistry B, 2006, 110, 12539-12542.	1.2	136
20	Manipulation of C60 molecules on a Si surface. Applied Physics Letters, 1995, 67, 1075-1077.	1.5	135
21	Directing two-dimensional molecular crystallization using guest templates. Chemical Communications, 2008, , 2304.	2.2	129
22	Resonant magnetotunneling through individual self-assembled InAs quantum dots. Physical Review B, 1996, 54, 16401-16404.	1.1	114
23	Surface self-assembly of the cyanuric acid-melamine hydrogen bonded network. Chemical Communications, 2006, , 538-540.	2.2	114
24	Supramolecular nesting of cyclic polymers. Nature Chemistry, 2015, 7, 317-322.	6.6	110
25	Supramolecular Assemblies Formed on an Epitaxial Graphene Superstructure. Angewandte Chemie - International Edition, 2010, 49, 1794-1799.	7.2	108
26	Two-dimensional supramolecular chemistry on surfaces. Chemical Science, 2011, 2, 1440.	3.7	108
27	Self-assembled aggregates formed by single-molecule magnets on a gold surface. Nature Communications, 2010, 1, 75.	5.8	105
28	Deep ultraviolet emission in hexagonal boron nitride grown by high-temperature molecular beam epitaxy. 2D Materials, 2017, 4, 021023.	2.0	102
29	Ultrafast delocalization of excitation in synthetic light-harvesting nanorings. Chemical Science, 2015, 6, 181-189.	3.7	101
30	Square, Hexagonal, and Row Phases of PTCDA and PTCDI on Ag <sup>111</sup> Si(111) Å <sup>-3</sup> . Journal of Physical Chemistry B, 2005, 109, 12167-12174.	1.2	98
31	Epitaxial growth of $\sqrt{3} \times \sqrt{3}$ -InSe and $\sqrt{3} \times \sqrt{3}$ , $\sqrt{2} \times \sqrt{2}$ , and $\sqrt{3} \times \sqrt{3}$ -In <sub>2</sub> Se <sub>3</sub> on $\sqrt{3} \times \sqrt{3}$ -GaSe. 2D Materials, 2018, 5, 035026.	2.0	98
32	Probing the wave function of quantum confined states by resonant magnetotunneling. Physical Review B, 1993, 48, 5664-5667.	1.1	92
33	Quantum confinement and photoresponsivity of $\sqrt{2} \times \sqrt{2}$ -In <sub>2</sub> Se <sub>3</sub> nanosheets grown by physical vapour transport. 2D Materials, 2016, 3, 025030.	2.0	88
34	Two Vernier-Templated Routes to a 24-Porphyrin Nanoring. Angewandte Chemie - International Edition, 2012, 51, 6696-6699.	7.2	87
35	Bond Breaking Coupled with Translation in Rolling of Covalently Bound Molecules. Physical Review Letters, 2005, 94, 146104.	2.9	85
36	Optical anisotropy in arrow-shaped InAs quantum dots. Physical Review B, 1998, 57, R6815-R6818.	1.1	80

#	ARTICLE	IF	CITATIONS
37	Honeycomb Networks and Chiral Superstructures Formed by Cyanuric Acid and Melamine on Au(111). <i>Journal of Physical Chemistry C</i> , 2007, 111, 886-893.	1.5	79
38	Supramolecular heterostructures formed by sequential epitaxial deposition of two-dimensional hydrogen-bonded arrays. <i>Nature Chemistry</i> , 2017, 9, 1191-1197.	6.6	79
39	Translation, rotation and removal of C60 on Si(100)-2 Å <sup>-1</sup> using anisotropic molecular manipulation. <i>Surface Science</i> , 1998, 407, 27-35.	0.8	76
40	Engineering p-n junctions and bandgap tuning of InSe nanolayers by controlled oxidation. <i>2D Materials</i> , 2017, 4, 025043.	2.0	76
41	Natural optical activity as the origin of the large chiroptical properties in $\pi$ -conjugated polymer thin films. <i>Nature Communications</i> , 2020, 11, 6137.	5.8	73
42	Supramolecular networks stabilise and functionalise black phosphorus. <i>Nature Communications</i> , 2017, 8, 1385.	5.8	72
43	Gated resonant tunnelling devices. <i>Electronics Letters</i> , 1991, 27, 134.	0.5	71
44	Room Temperature Electroluminescence from Mechanically Formed van der Waals III-VI Homojunctions and Heterojunctions. <i>Advanced Optical Materials</i> , 2014, 2, 1064-1069.	3.6	71
45	Enhancement of CO <sub>2</sub> Adsorption and Catalytic Properties by Fe-Doping of [Ga <sub>2</sub> (OH) <sub>2</sub> (L)] (H <sub>4</sub> L = Biphenyl-3,3',5,5'-tetracarboxylic Acid), MFM-300(Ga <sub>2</sub> ). <i>Inorganic Chemistry</i> , 2016, 55, 1076-1088.	1.9	70
46	C60-terminated Si surfaces: Charge transfer, bonding, and chemical passivation. <i>Physical Review B</i> , 1998, 57, 362-369.	1.1	69
47	Growth Induced Reordering of Fullerene Clusters Trapped in a Two-Dimensional Supramolecular Network. <i>Langmuir</i> , 2005, 21, 2038-2041.	1.6	69
48	Formation of Monolayer Graphene by Annealing Sacrificial Nickel Thin Films. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16565-16567.	1.5	68
49	Hierarchical Organisation on a Two-Dimensional Supramolecular Network. <i>ChemPhysChem</i> , 2007, 8, 2177-2181.	1.0	66
50	Role of Interaction Anisotropy in the Formation and Stability of Molecular Templates. <i>Physical Review Letters</i> , 2008, 100, 156101.	2.9	66
51	Hot-electron transport in heavily doped GaAs. <i>Semiconductor Science and Technology</i> , 1986, 1, 63-70.	1.0	63
52	Dimerization of Tri(4-bromophenyl)benzene by Aryl-Aryl Coupling from Solution on a Gold Surface. <i>Journal of the American Chemical Society</i> , 2011, 133, 4220-4223.	6.6	63
53	The oscillatory magnetoresistance of electrons in a square superlattice potential. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 8257-8262.	0.7	60
54	New nonlocal magnetoresistance effect at the crossover between the classical and quantum transport regimes. <i>Physical Review Letters</i> , 1991, 67, 3014-3017.	2.9	60

#	ARTICLE	IF	CITATIONS
55	Measuring the Probability Density of Quantum Confined States. <i>Physical Review Letters</i> , 1995, 75, 1996-1999.	2.9	60
56	Broken symmetry and the variation of critical properties in the phase behaviour of supramolecular rhombus tilings. <i>Nature Chemistry</i> , 2012, 4, 112-117.	6.6	60
57	Hexagonal Boron Nitride Tunnel Barriers Grown on Graphite by High Temperature Molecular Beam Epitaxy. <i>Scientific Reports</i> , 2016, 6, 34474.	1.6	60
58	Ligand-Induced Control of Photoconductive Gain and Doping in a Hybrid Graphene-Quantum Dot Transistor. <i>Advanced Electronic Materials</i> , 2015, 1, 1500062.	2.6	59
59	Growth front nucleation of rubrene thin films for high mobility organic transistors. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	58
60	Functionalized Supramolecular Nanoporous Arrays for Surface Templating. <i>Chemistry - A European Journal</i> , 2008, 14, 7600-7607.	1.7	58
61	Adsorption of cobalt phthalocyanine on Ag terminated Si(111). <i>Surface Science</i> , 1999, 441, 21-25.	0.8	57
62	Hydrogen-Bonded PTCDA-Melamine Networks and Mixed Phases. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6110-6114.	1.2	56
63	Double domain ordering and selective removal of C <sub>60</sub> on Ag/Si(111). <i>Physical Review B</i> , 1997, 56, R1704-R1707.	1.1	53
64	Observation of universal thermopower fluctuations. <i>Physical Review Letters</i> , 1990, 64, 2058-2061.	2.9	51
65	Electrospray deposition of fullerenes in ultra-high vacuum: in situ scanning tunneling microscopy and photoemission spectroscopy. <i>Nanotechnology</i> , 2007, 18, 455304.	1.3	50
66	Conformation and Packing of Porphyrin Polymer Chains Deposited Using Electrospray on a Gold Surface. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9136-9139.	7.2	50
67	Solution Preparation of Two-Dimensional Covalently Linked Networks by Polymerization of 1,3,5-Tri(4-iodophenyl)benzene on Au(111). <i>ACS Nano</i> , 2013, 7, 3014-3021.	7.3	50
68	Van der Waals epitaxy of two-dimensional single-layer h-BN on graphite by molecular beam epitaxy: Electronic properties and band structure. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	50
69	Breakdown of universal scaling of conductance fluctuations in high magnetic fields. <i>Physical Review Letters</i> , 1992, 69, 1248-1251.	2.9	49
70	Nucleation and Early Stages of Layer-by-Layer Growth of Metal Organic Frameworks on Surfaces. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23544-23551.	1.5	49
71	Strain-Engineered Graphene Grown on Hexagonal Boron Nitride by Molecular Beam Epitaxy. <i>Scientific Reports</i> , 2016, 6, 22440.	1.6	49
72	High-performance, graded AlGaAs injector, GaAs Gunn diodes at 94 GHz. <i>IEEE Electron Device Letters</i> , 1989, 10, 288-290.	2.2	48

#	ARTICLE	IF	CITATIONS
73	Electrospray Deposition of C60 on a Hydrogen-Bonded Supramolecular Network. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7706-7709.	1.5	48
74	Experimental and theoretical identification of adenine monolayers on Ag-terminated Si(111). <i>Physical Review B</i> , 2006, 73, .	1.1	46
75	Vernier-templated Synthesis, Crystal Structure, and Supramolecular Chemistry of a 12-porphyrin Nanoring. <i>Chemistry - A European Journal</i> , 2014, 20, 12826-12834.	1.7	46
76	Structural and optical characterization of self-assembled InAs-GaAs quantum dots grown on high index surfaces. <i>Microelectronics Journal</i> , 1997, 28, 933-938.	1.1	45
77	Giant Quantum Hall Plateau in Graphene Coupled to an InSe van der Waals Crystal. <i>Physical Review Letters</i> , 2017, 119, 157701.	2.9	44
78	Temperature dependence of magnetoresistance oscillations in a two-dimensional electron gas subjected to a periodic potential. <i>Physical Review B</i> , 1990, 42, 9689-9692.	1.1	43
79	How Does Graphene Grow? Easy Access to Well-ordered Graphene Films. <i>Small</i> , 2009, 5, 2291-2296.	5.2	40
80	van der Waals-Induced Chromatic Shifts in Hydrogen-Bonded Two-Dimensional Porphyrin Arrays on Boron Nitride. <i>ACS Nano</i> , 2015, 9, 10347-10355.	7.3	40
81	Ultra-high resolution imaging of thin films and single strands of polythiophene using atomic force microscopy. <i>Nature Communications</i> , 2019, 10, 1537.	5.8	40
82	Tailoring pores for guest entrapment in a unimolecular surface self-assembled hydrogen bonded network. <i>Chemical Communications</i> , 2010, 46, 2775.	2.2	39
83	Lattice-Matched Epitaxial Graphene Grown on Boron Nitride. <i>Nano Letters</i> , 2018, 18, 498-504.	4.5	39
84	High mobility organic transistors fabricated from single pentacene microcrystals grown on a polymer film. <i>Applied Physics Letters</i> , 2003, 83, 3108-3110.	1.5	38
85	Resonant Magnetotunneling via One-Dimensional Quantum Confined States. <i>Physical Review Letters</i> , 1994, 73, 1146-1149.	2.9	36
86	Submicrometer resonant tunnelling diodes fabricated by photolithography and selective wet etching. <i>Applied Physics Letters</i> , 1994, 65, 1124-1126.	1.5	34
87	Orientationally ordered island growth of higher fullerenes on Ag/Si(111)-(3x3)R30°. <i>Physical Review B</i> , 2001, 64, .	1.1	34
88	Mechanical Stiffening of Porphyrin Nanorings through Supramolecular Columnar Stacking. <i>Nano Letters</i> , 2013, 13, 3391-3395.	4.5	34
89	Band gap measurements of monolayer h-BN and insights into carbon-related point defects. <i>2D Materials</i> , 2021, 8, 044001.	2.0	34
90	Molecular random tilings as glasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15209-15213.	3.3	33

#	ARTICLE	IF	CITATIONS
91	Adsorbed and substituted Sb dimers on GaAs(001). <i>Physical Review B</i> , 1996, 53, R16148-R16151.	1.1	32
92	Hot-electron transport in In <sub>0.53</sub> Ga <sub>0.47</sub> As. <i>Journal of Applied Physics</i> , 1987, 62, 1842-1849.	1.1	31
93	Attractive mode manipulation of covalently bound molecules. <i>Chemical Physics Letters</i> , 2002, 366, 300-304.	1.2	31
94	High-temperature molecular beam epitaxy of hexagonal boron nitride layers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, .	0.6	31
95	Coherent acoustic phonons in van der Waals nanolayers and heterostructures. <i>Physical Review B</i> , 2018, 98, .	1.1	31
96	High open-circuit voltage in transition metal dichalcogenide solar cells. <i>Nano Energy</i> , 2021, 79, 105427.	8.2	31
97	Magnetic breakdown of a two-dimensional electron gas in a periodic potential. <i>Physical Review B</i> , 1991, 43, 9980-9983.	1.1	30
98	The use of linearly graded composition AlGaAs injectors for intervalley transfer in GaAs: theory and experiment. <i>Solid-State Electronics</i> , 1988, 31, 613-616.	0.8	29
99	Zero-dimensional states in macroscopic resonant tunneling devices. <i>Applied Physics Letters</i> , 1994, 64, 2563-2565.	1.5	29
100	Deposition of Fe clusters on Si surfaces. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 2646.	1.6	29
101	Graphene Formation by Decomposition of C <sub>60</sub> . <i>Journal of Physical Chemistry C</i> , 2011, 115, 7472-7476.	1.5	29
102	Theory of resonant tunneling through a quantum wire. <i>Physical Review B</i> , 1995, 51, 1735-1742.	1.1	28
103	Random and Ordered Phases of Off-Lattice Rhombus Tiles. <i>Physical Review Letters</i> , 2012, 108, 035702.	2.9	28
104	Organisation and ordering of 1D porphyrin polymers synthesised by on-surface Glaser coupling. <i>Chemical Communications</i> , 2016, 52, 10342-10345.	2.2	28
105	Room temperature manipulation of the heterofullerene C <sub>59</sub> N on Si(100)-2 $\times$ 1. <i>Applied Physics Letters</i> , 1999, 75, 1074-1076.	1.5	27
106	Dianhydride-Amine Hydrogen Bonded Perylene Tetracarboxylic Dianhydride and Tetraaminobenzene Rows. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12207-12210.	1.2	27
107	The resistance of two quantum point contacts in series. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 7505-7511.	0.7	26
108	(2 $\times$ 4)/c(2 $\times$ 8) to (4 $\times$ 2)/c(8 $\times$ 2) transition on GaAs(001) surfaces. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1996, 14, 943.	1.6	26

#	ARTICLE	IF	CITATIONS
109	Edge effects in a gated submicron resonant tunneling diode. <i>Applied Physics Letters</i> , 1992, 60, 2508-2510.	1.5	25
110	Room temperature manipulation of C60 molecules on a Si surface. <i>Surface Science</i> , 1996, 361-362, 878-881.	0.8	25
111	Measurement and manipulation of Mn clusters on clean and fullerene terminated Si(111)-7 $\times$ 7. <i>Applied Physics Letters</i> , 1997, 70, 2114-2116.	1.5	25
112	Absence of long-range ordered reconstruction on the GaAs(311)A surface. <i>Physical Review B</i> , 1997, 55, 15397-15400.	1.1	24
113	C59N Monomers: Stabilization through Immobilization. <i>Physical Review Letters</i> , 1999, 83, 3478-3481.	2.9	24
114	Fractal-compact island transition and self-limiting growth of pentacene on polymers. <i>Surface Science</i> , 2003, 537, 241-246.	0.8	24
115	Single molecule magnets on a gold surface: <i>in situ</i> electro spray deposition, x-ray absorption and photoemission. <i>Nanotechnology</i> , 2011, 22, 075704.	1.3	24
116	Adsorbate-Induced Curvature and Stiffening of Graphene. <i>Nano Letters</i> , 2015, 15, 159-164.	4.5	24
117	Bimolecular porous supramolecular networks deposited from solution on layered materials: graphite, boron nitride and molybdenum disulphide. <i>Chemical Communications</i> , 2014, 50, 8882-8885.	2.2	23
118	Passivation of Si(111)-7 $\times$ 7 by a C60 monolayer. <i>Applied Physics Letters</i> , 1996, 69, 506-508.	1.5	22
119	Coadsorbed NTCDI-melamine mixed phases on Ag-Si(111). <i>Physical Review B</i> , 2007, 76, .	1.1	22
120	High temperature MBE of graphene on sapphire and hexagonal boron nitride flakes on sapphire. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, .	0.6	22
121	Substrate-induced shifts and screening in the fluorescence spectra of supramolecular adsorbed organic monolayers. <i>Journal of Chemical Physics</i> , 2018, 149, 054701.	1.2	22
122	Resonant tunnelling into the two-dimensional subbands of InSe layers. <i>Communications Physics</i> , 2020, 3, .	2.0	22
123	Observation of discrete resistance levels in large area graded gap diodes at low temperatures. <i>Applied Physics Letters</i> , 1986, 49, 1652-1653.	1.5	21
124	High frequency study of nonequilibrium transport in heterostructure bipolar transistors. <i>Applied Physics Letters</i> , 1989, 55, 1789-1791.	1.5	20
125	Adsorption of PTCDI on Au(111): Photoemission and scanning tunnelling microscopy. <i>Surface Science</i> , 2009, 603, 3094-3098.	0.8	20
126	Numerical study of nonequilibrium electron transport in AlGaAs/GaAs heterojunction bipolar transistors. <i>Applied Physics Letters</i> , 1989, 55, 250-252.	1.5	19



#	ARTICLE	IF	CITATIONS
127	Quantum confinement in laterally squeezed resonant tunneling devices. <i>Physical Review Letters</i> , 1992, 69, 2995-2995.	2.9	19
128	Adsorption and manipulation of endohedral and higher fullerenes on Si(100)-1 $\times$ 1. <i>Physical Review B</i> , 2003, 67, .	1.1	19
129	Manipulation of C <sub>60</sub> on the Si(001) surface: Experiment and theory. <i>Physical Review B</i> , 2006, 74, .	1.1	19
130	Moiré-Modulated Conductance of Hexagonal Boron Nitride Tunnel Barriers. <i>Nano Letters</i> , 2018, 18, 4241-4246.	4.5	19
131	Emergent Rhombus Tilings from Molecular Interactions with $M$ -fold Rotational Symmetry. <i>Physical Review Letters</i> , 2015, 114, 115702.	2.9	18
132	Double chain structures on the Sb-terminated GaAs(111)B surface. <i>Physical Review B</i> , 1995, 51, 7950-7953.	1.1	17
133	C <sub>60</sub> manipulation and cluster formation using a scanning tunneling microscope. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1996, 14, 1596.	1.6	17
134	High-Temperature Molecular Beam Epitaxy of Hexagonal Boron Nitride with High Active Nitrogen Fluxes. <i>Materials</i> , 2018, 11, 1119.	1.3	17
135	Entrapment of Decanethiol in a Hydrogen-Bonded Bimolecular Template. <i>Langmuir</i> , 2009, 25, 2278-2281.	1.6	16
136	Common Physical Framework Explains Phase Behavior and Dynamics of Atomic, Molecular, and Polymeric Network Formers. <i>Physical Review X</i> , 2014, 4, .	2.8	16
137	An atomic carbon source for high temperature molecular beam epitaxy of graphene. <i>Scientific Reports</i> , 2017, 7, 6598.	1.6	16
138	Ordering, flexibility and frustration in arrays of porphyrin nanorings. <i>Nature Communications</i> , 2019, 10, 2932.	5.8	16
139	Epitaxy of boron nitride monolayers for graphene-based lateral heterostructures. <i>2D Materials</i> , 2021, 8, 034001.	2.0	15
140	Ballistic transmission in perpendicular quantum point contacts. <i>Physical Review B</i> , 1989, 40, 10033-10035.	1.1	14
141	Landau-level populations and slow energy relaxation of a two-dimensional electron gas probed by tunneling spectroscopy. <i>Physical Review B</i> , 1995, 52, 4666-4669.	1.1	14
142	Sb-induced GaAs(111)B surface reconstructions: success and failure of the electron-counting rule. <i>Surface Science</i> , 1996, 365, L663-L668.	0.8	14
143	Step-flow growth of graphene-boron nitride lateral heterostructures by molecular beam epitaxy. <i>2D Materials</i> , 2020, 7, 035014.	2.0	14
144	Hot-electron injection by graded Al <sub>x</sub> Ga <sub>1-x</sub> As. <i>Electronics Letters</i> , 1986, 22, 130.	0.5	13

#	ARTICLE	IF	CITATIONS
145	Quantised Hall effect and magnetoresistance through a quantum point contact. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 7499-7503.	0.7	13
146	A self-assembled InAs quantum dot used as a quantum microscope looking into a two-dimensional electron gas. <i>Physics-Uspekhi</i> , 1998, 41, 122-125.	0.8	13
147	Packing of Isophthalate Tetracarboxylic Acids on Au(111): Rows and Disordered Herringbone Structures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18381-18385.	1.5	13
148	Epitaxial multilayers of alkanes on two-dimensional black phosphorus as passivating and electrically insulating nanostructures. <i>Nanoscale</i> , 2019, 11, 17252-17261.	2.8	13
149	Resonant tunnelling through a single impurity in high magnetic fields: Probing a two-dimensional electron gas on a nanometre scale. <i>Physica B: Condensed Matter</i> , 1995, 211, 433-436.	1.3	12
150	Molecular scale alignment strategies: An investigation of Ag adsorption on patterned fullerene layers. <i>Applied Physics Letters</i> , 1997, 71, 2937-2939.	1.5	12
151	Digital scanning probe microscope controller for molecular manipulation applications. <i>Review of Scientific Instruments</i> , 2000, 71, 1698-1701.	0.6	12
152	Dynamic scanning probe microscopy of adsorbed molecules on graphite. <i>Applied Physics Letters</i> , 2009, 94, 043110.	1.5	12
153	The growth and fluorescence of phthalocyanine monolayers, thin films and multilayers on hexagonal boron nitride. <i>Chemical Communications</i> , 2018, 54, 12021-12024.	2.2	12
154	High magnetic field studies of resonant tunneling via shallow impurities in $\hat{\Gamma}$ -doped quantum wells. <i>Physica B: Condensed Matter</i> , 1993, 184, 241-245.	1.3	11
155	Mesoscopic effects in resonant tunnelling diodes. <i>Solid-State Electronics</i> , 1994, 37, 965-968.	0.8	11
156	Kinetic Instabilities in the Growth of One Dimensional Molecular Nanostructures. <i>Physical Review Letters</i> , 2006, 97, 236102.	2.9	11
157	Graphene-InSe-graphene van der Waals heterostructures. <i>Journal of Physics: Conference Series</i> , 2015, 647, 012001.	0.3	11
158	Nonlocal magnetoresistance of diffusive wires in high magnetic fields. <i>Physica B: Condensed Matter</i> , 1993, 184, 341-350.	1.3	10
159	Disorder-Order Ripening of C <sub>60</sub> Islands. <i>Physical Review Letters</i> , 1997, 78, 2588-2591.	2.9	10
160	C <sub>60</sub> adsorption on the Si(110)-(16 Å <sup>-2</sup> ) surface. <i>Surface Science</i> , 1998, 397, 421-425.	0.8	10
161	Doping of covalently bound fullerene monolayers: Ag clusters on C <sub>60</sub> /Si(111). <i>Applied Physics Letters</i> , 2000, 77, 1144-1146.	1.5	10
162	Competing interactions of noble metals and fullerenes with the Si(111)7Å <sup>-7</sup> surface. <i>Journal of Chemical Physics</i> , 2003, 119, 13046-13052.	1.2	10

#	ARTICLE	IF	CITATIONS
163	Monte-Carlo simulation of hot electron spectra. <i>Solid-State Electronics</i> , 1988, 31, 637-640.	0.8	9
164	Ballistic magnetoresistance and the Hall effect in a restricted geometry. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 6541-6546.	0.7	9
165	Observation of the rectification fluctuations in a mesoscopic n+-GaAs wire. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 5641-5645.	0.7	9
166	Asymmetry in the I(V) characteristics of a gated resonant tunnelling diode. <i>Semiconductor Science and Technology</i> , 1992, 7, B442-B445.	1.0	9
167	Quantum transport in diffusive microstructures in high magnetic fields. <i>Superlattices and Microstructures</i> , 1993, 13, 11-20.	1.4	9
168	Transport in sub-micron resonant tunnelling devices. <i>Physica B: Condensed Matter</i> , 1993, 189, 125-134.	1.3	9
169	Photoluminescence of donor energy levels in resonant tunnelling devices. <i>Semiconductor Science and Technology</i> , 1994, 9, 549-551.	1.0	9
170	Magnetic-field dependence of the electrical characteristics of a gated resonant-tunneling diode. <i>Physical Review B</i> , 1994, 49, 2261-2264.	1.1	9
171	Island, trimer, and chain formation on the Sb-terminated GaAs(111)B surface. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1996, 14, 1024.	1.6	9
172	Growth and modification of Ag islands on hydrogen terminated Si(100) surfaces. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 13.	1.6	9
173	Height dependent molecular trapping in stacked cyclic porphyrin nanorings. <i>Chemical Communications</i> , 2014, 50, 7332-7335.	2.2	9
174	Adsorption of Hexacontane on Hexagonal Boron Nitride. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27575-27581.	1.5	9
175	Triplet Excitation and Electroluminescence from a Supramolecular Monolayer Embedded in a Boron Nitride Tunnel Barrier. <i>Nano Letters</i> , 2020, 20, 278-283.	4.5	9
176	Fluorescence and Electroluminescence of J-Aggregated Polythiophene Monolayers on Hexagonal Boron Nitride. <i>ACS Nano</i> , 2020, 14, 13886-13893.	7.3	9
177	Nonlinear conductance of quantum point contacts in a magnetic field. <i>Semiconductor Science and Technology</i> , 1992, 7, B279-B282.	1.0	8
178	Photohole-induced resonant tunneling of electrons in selectively etched small area GaAs/AlAs double barrier diodes. <i>Solid-State Electronics</i> , 1994, 37, 973-976.	0.8	8
179	Nanometer scale patterning of C60 multilayers using molecular manipulation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997, 15, 1478-1481.	0.9	8
180	Resonant magnetotunneling through individual self-assembled InAs quantum dots. <i>Superlattices and Microstructures</i> , 1997, 21, 255-258.	1.4	8

#	ARTICLE	IF	CITATIONS
181	Reconstruction dependent adsorption of C60 on GaAs(111)B. Surface Science, 1998, 405, 21-26.	0.8	8
182	Functionalized fullerenes on silicon surfaces. Surface Science, 1998, 405, L526-L531.	0.8	8
183	AIRBED: A Simplified Density Functional Theory Model for Physisorption on Surfaces. Journal of Chemical Theory and Computation, 2019, 15, 5628-5634.	2.3	8
184	Sound attenuation and relaxational dynamics in spin glasses. Journal of Physics C: Solid State Physics, 1983, 16, 1245-1254.	1.5	7
185	High efficiency submicron light-emitting resonant tunneling diodes. Applied Physics Letters, 1994, 65, 3332-3334.	1.5	7
186	Atomic scale modifications of GaAs using a scanning tunneling microscope. Applied Physics Letters, 1995, 66, 1515-1517.	1.5	7
187	Oscillations in the valence-band photoemission spectrum of the heterofullerene C59N: A photoelectron interference phenomenon. Physical Review B, 1999, 59, 9834-9837.	1.1	7
188	Constrained Molecular Manipulation Mediated by Attractive and Repulsive Tip-Adsorbate Forces. Small, 2008, 4, 765-769.	5.2	7
189	Solubilized Derivatives of Perylene-tetracarboxylic Dianhydride (PTCDA) Adsorbed on Highly Oriented Pyrolytic Graphite. Langmuir, 2010, 26, 3972-3974.	1.6	7
190	Entropically stabilized growth of a two-dimensional random tiling. Physical Review E, 2010, 82, 041109.	0.8	7
191	Fullerenes as adhesive layers for mechanical peeling of metallic, molecular and polymer thin films. Beilstein Journal of Nanotechnology, 2014, 5, 394-401.	1.5	7
192	Use of n+ spike doping regions as nonequilibrium connectors. Electronics Letters, 1988, 24, 434.	0.5	7
193	Nonequilibrium electron dynamics in bipolar transistors. Solid-State Electronics, 1989, 32, 1289-1295.	0.8	6
194	Above-barrier surface electron resonances induced by a molecular network. Physical Review B, 2010, 81, .	1.1	6
195	Selection of Adlayer Patterns of 1,3-Dithia Derivatives of Ferrocene by the Nature of the Solvent. Journal of Physical Chemistry C, 2018, 122, 19067-19074.	1.5	6
196	Electron spin resonance in spin glasses with Dzyaloshinsky-Moriya anisotropy: a microscopic approach. Journal of Physics C: Solid State Physics, 1984, 17, 2157-2173.	1.5	5
197	Vertical transport in multilayer semiconductor structures. Superlattices and Microstructures, 1986, 2, 313-317.	1.4	5
198	Physics and design of hot-electron spectrometers and transistors. Journal of Applied Physics, 1989, 65, 3076-3079.	1.1	5

#	ARTICLE	IF	CITATIONS
199	High-Frequency Dephasing and Hot Electron Effects in Quasi-1D Wires. <i>Physica Scripta</i> , 1991, T39, 295-301.	1.2	5
200	Non-local magnetoresistance at the crossover between the classical and quantum transport regimes. <i>Surface Science</i> , 1992, 263, 298-302.	0.8	5
201	Zero dimensional resonant tunneling through single donor states. <i>Superlattices and Microstructures</i> , 1992, 11, 149-153.	1.4	5
202	Effect of a parallel magnetic field on the resonant-tunneling current through a quantum wire. <i>Physical Review B</i> , 1995, 52, 1504-1507.	1.1	5
203	Chemisorption of azafullerene on silicon: isolating C <sub>59</sub> N monomers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 74, 202-205.	1.7	5
204	A compact combined ultrahigh vacuum scanning tunnelling microscope (UHV STM) and near-field optical microscope. <i>Measurement Science and Technology</i> , 2008, 19, 045301.	1.4	5
205	Naphthalocyanine Thin Films and Field Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15338-15341.	1.5	5
206	Hot electron transport in GaAs in the presence of a magnetic field. <i>Applied Physics Letters</i> , 1987, 51, 1425-1427.	1.5	4
207	Series addition of ballistic resistors. <i>Solid-State Electronics</i> , 1989, 32, 1303-1307.	0.8	4
208	Single electron tunnelling through a donor state in a gated resonant tunnelling device. <i>Surface Science</i> , 1992, 263, 438-441.	0.8	4
209	Effect of Si $\delta$ doping and growth temperature on the I(V) characteristics of molecular-beam epitaxially grown GaAs/(AlGa)As resonant tunneling devices. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1993, 11, 958.	1.6	4
210	STM investigation and manipulation of molecules adsorbed on an Si(111) surface. <i>Semiconductor Science and Technology</i> , 1996, 11, 1563-1568.	1.0	4
211	Effects on the resonant tunneling characteristics of a double-barrier diode of intentional and unintentional dopings in the quantum well. <i>Journal of Applied Physics</i> , 1999, 86, 1452-1455.	1.1	4
212	Porous macromolecular dihydropyridyl frameworks exhibiting catalytic and halochromic activity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19889-19896.	5.2	4
213	Two-Dimensional Diffusion of Excitons in a Perylene Diimide Monolayer Quenched by a Fullerene Heterojunction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12249-12254.	1.5	4
214	Submolecular Resolution Imaging of P3HT:PCBM Nanostructured Films by Atomic Force Microscopy: Implications for Organic Solar Cells. <i>ACS Applied Nano Materials</i> , 2022, 5, 13794-13804.	2.4	4
215	Sulphide passivation of (AlGa)As/GaAs modulation-doped heterostructures. <i>Semiconductor Science and Technology</i> , 1993, 8, 2101-2105.	1.0	3
216	An (AlGa)As/GaAs heterojunction bipolar transistor with a resonant-tunnelling collector. <i>Semiconductor Science and Technology</i> , 1994, 9, 1500-1503.	1.0	3

#	ARTICLE	IF	CITATIONS
217	Atomic scale protection using fullerene encapsulation. Applied Physics Letters, 2001, 78, 126-128.	1.5	3
218	Universal thermopower and rectification fluctuations. Surface Science, 1990, 229, 326-330.	0.8	2
219	Resonant tunnelling quantum dots and wires: some recent problems and progress. Semiconductor Science and Technology, 1994, 9, 1912-1918.	1.0	2
220	Role of contacts in mesoscopic devices. Superlattices and Microstructures, 1994, 15, 53.	1.4	2
221	A novel approach in fabrication and study of laterally quantum-confined resonant tunnelling diodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1995, 35, 192-197.	1.7	2
222	Lateral translation of covalently bound fullerenes. Journal of Physics Condensed Matter, 2006, 18, S1837-S1846.	0.7	2
223	Supramolecular effects in self-assembled monolayers: general discussion. Faraday Discussions, 2017, 204, 123-158.	1.6	2
224	Supramolecular systems at liquid-solids interfaces: general discussion. Faraday Discussions, 2017, 204, 271-295.	1.6	2
225	Temperature and angular dependence of magnetoresistance oscillations in a 2deg subjected to a periodic potential. Physica B: Condensed Matter, 1990, 165-166, 867-868.	1.3	1
226	Classical and Quantum Motion in Lateral Superlattices. Physica Scripta, 1991, T39, 169-176.	1.2	1
227	Discrete electroluminescence lines in sub-micron p-i-n resonant tunnelling diodes. Superlattices and Microstructures, 1994, 16, 169.	1.4	1
228	Creation and annihilation of positively and negatively charged excitons in GaAs quantum wells. Surface Science, 1996, 361-362, 447-450.	0.8	1
229	Investigation and Manipulation of C60 on a Si Surface Using a Scanning Tunneling Microscope. Fullerenes, Nanotubes, and Carbon Nanostructures, 1997, 5, 769-780.	0.6	1
230	Probing the interactions of on Si(100)- using anisotropic molecular manipulation. Semiconductor Science and Technology, 1998, 13, A47-A50.	1.0	1
231	A novel tripod-driven platform for in-situ positioning of samples and electrical probes in a TEM. Journal of Physics: Conference Series, 2010, 241, 012057.	0.3	1
232	Electron spin resonance in spin glasses: linewidths. Journal of Physics C: Solid State Physics, 1985, 18, 1225-1240.	1.5	0
233	Surface states in spin glasses. Journal of Physics C: Solid State Physics, 1985, 18, L37-L40.	1.5	0
234	Solitons in spin glasses. Journal of Physics C: Solid State Physics, 1985, 18, L145-L151.	1.5	0

#	ARTICLE	IF	CITATIONS
235	Monte Carlo simulations of repeated velocity overshoot structures. Electronics Letters, 1988, 24, 817.	0.5	0
236	Series addition of ballistic resistors. Semiconductor Science and Technology, 1990, 5, 1189-1193.	1.0	0
237	Cretion and annihilation of negatively charged excitons in GaAs quantum wells. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1995, 17, 1395-1400.	0.4	0
238	Resonant magnetotunneling via quantum confined states. Physica B: Condensed Matter, 1995, 211, 423-429.	1.3	0
239	Fabrication of Si nanostructures by controlled sidewall oxidation. Solid-State Electronics, 1996, 40, 265-269.	0.8	0
240	MBE growth and magnetotunnelling transport properties of a single GaAs/AlAs/GaAs barrier incorporating InAs quantum dots. Journal of Crystal Growth, 1997, 175-176, 782-786.	0.7	0
241	Novel characteristics of self assembled InAs quantum dots grown on (311)A GaAs. Microelectronic Engineering, 1998, 43-44, 45-49.	1.1	0
242	C59N on silicon surfaces: monomers, dimers and multilayers. , 1999, , .		0
243	Probing properties of molecule-based interface systems: general discussion and Discussion of the Concluding Remarks. Faraday Discussions, 2017, 204, 503-530.	1.6	0
244	Preparing macromolecular systems on surfaces: general discussion. Faraday Discussions, 2017, 204, 395-418.	1.6	0
245	Hot-Electron Spectroscopy and Transistor Design. NATO ASI Series Series B: Physics, 1987, , 393-402.	0.2	0
246	Quantum Dot Fabrication by Optical Lithography and Selective Etching. , 1993, , 191-197.		0
247	Resonant Tunnelling via the Bound States of Shallow Donors. , 1993, , 83-88.		0
248	Some Recent Developments in Quantum Transport in Mesoscopic Structures and Quantum Wells. NATO ASI Series Series B: Physics, 1995, , 227-240.	0.2	0