CITATION REPORT List of articles citing

Scattering and interference in epitaxial graphene

DOI: 10.1126/science.1142882 Science, 2007, 317, 219-22.

Source: https://exaly.com/paper-pdf/43034035/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
656	Formation of graphene on Ru(0001) surface. 2007 , 16, 3151-3153		127
655	Voltage and temperature dependencies of conductivity in gated graphene. <i>Physical Review B</i> , 2007 , 76,	3.3	126
654	Massless fermions in multilayer graphitic systems with misoriented layers: Ab initio calculations and experimental fingerprints. <i>Physical Review B</i> , 2007 , 76,	3.3	263
653	Imaging the interface of epitaxial graphene with silicon carbide via scanning tunneling microscopy. <i>Physical Review B</i> , 2007 , 76,	3.3	170
652	Substrate-induced bandgap opening in epitaxial graphene. 2007 , 6, 770-5		1883
651	One- and two-dimensional diffusion of metal atoms in graphene. 2008 , 4, 587-91		344
650	Epitaxial graphene: a new material. 2008, 245, 1436-1446		150
649	Deoxygenation of Exfoliated Graphite Oxide under Alkaline Conditions: A Green Route to Graphene Preparation. <i>Advanced Materials</i> , 2008 , 20, 4490-4493	24	1517
648	Spatial modulation of the Dirac gap in epitaxial graphene. 2008 , 602, L127-L130		37
647	Interaction, growth, and ordering of epitaxial graphene on SiC{0001} surfaces: A comparative photoelectron spectroscopy study. <i>Physical Review B</i> , 2008 , 77,	3.3	759
646	Evidence for graphene growth by C cluster attachment. 2008 , 10, 093026		245
645	Tuning the electronic structure of graphene by ion irradiation. <i>Physical Review B</i> , 2008 , 78,	3.3	179
644	Origin of the energy bandgap in epitaxial graphene. 2008 , 7, 258-9; author reply 259-60		152
643	Origin of the energy bandgap in epitaxial graphene. 2008 , 7, 259-260		159
642	Tailoring the atomic structure of graphene nanoribbons by scanning tunnelling microscope lithography. 2008 , 3, 397-401		779
641	Giant phonon-induced conductance in scanning tunnelling spectroscopy of gate-tunable graphene. 2008 , 4, 627-630		353
640	Observation of electronBole puddles in graphene using a scanning single-electron transistor. 2008 , 4, 144-148		1227

639	Charged-impurity scattering in graphene. 2008 , 4, 377-381		1159
638	Graphene-substrate interaction on 6H-SiC(0001[]): A scanning tunneling microscopy study. <i>Physical Review B</i> , 2008 , 78,	3.3	91
637	Periodically rippled graphene: growth and spatially resolved electronic structure. 2008, 100, 056807		528
636	Chemical origin of a graphene moir[bverlayer on Ru(0001). <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3530-4	3.6	220
635	Atomic and electronic structure of few-layer graphene on SiC(0001) studied with scanning tunneling microscopy and spectroscopy. <i>Physical Review B</i> , 2008 , 77,	3.3	314
634	Impermeable atomic membranes from graphene sheets. 2008 , 8, 2458-62		2140
633	The growth and morphology of epitaxial multilayer graphene. 2008, 20, 323202		536
632	Structural coherency of graphene on Ir(111). 2008 , 8, 565-70		827
631	Stability of dislocation defect with two pentagon-heptagon pairs in graphene. <i>Physical Review B</i> , 2008 , 78,	3.3	93
630	Atomic layer deposition of metal oxides on pristine and functionalized graphene. 2008 , 130, 8152-3		562
629	Strong polarization dependence of double-resonant Raman intensities in graphene. 2008 , 8, 4270-4		80
628	A possible source of spin-polarized electrons: The inert graphene/Ni(111) system. 2008 , 92, 052506		132
627	Precise in situ thickness analysis of epitaxial graphene layers on SiC(0001) using low-energy electron diffraction and angle resolved ultraviolet photoelectron spectroscopy. 2008 , 93, 033106		93
626	Ripples in epitaxial graphene on the Si-terminated SiC(0001) surface. <i>Physical Review B</i> , 2008 , 77,	3.3	145
625	Effect of a single localized impurity on the local density of States in monolayer and bilayer graphene. 2008 , 100, 076601		96
624	Bottom-up growth of epitaxial graphene on 6H-SiC(0001). 2008 , 2, 2513-8		219
623	Symmetry breaking induced bandgap in epitaxial graphene layers on SiC. 2008, 8, 4464-8		140
622	Ultrafast relaxation of excited Dirac fermions in epitaxial graphene using optical differential transmission spectroscopy. 2008 , 101, 157402		364

621	Rotational disorder in few-layer graphene films on 6HBiC(00011): A scanning tunneling microscopy study. <i>Physical Review B</i> , 2008 , 77,	3.3	167
620	Phonon-mediated tunneling into graphene. 2008 , 101, 216803		70
619	Morphology of graphene thin film growth on SiC(0001). 2008 , 10, 023034		147
618	Phonon dispersions of hydrogenated and dehydrogenated carbon nanoribbons. <i>Physical Review B</i> , 2008 , 77,	3.3	48
617	Interface structure of epitaxial graphene grown on 4H-SiC(0001). Physical Review B, 2008, 78,	3.3	85
616	Local impurity effects in superconducting graphene. <i>Physical Review B</i> , 2008 , 78,	3.3	15
615	Atomic-scale investigation of graphene formation on 6H-SiC(0001). 2008, 26, 932-937		32
614	Characterization of nanometer-sized, mechanically exfoliated graphene on the H-passivated Si(100) surface using scanning tunneling microscopy. 2008 , 19, 015704		50
613	Tuning impurity states in bilayer graphene. <i>Physical Review B</i> , 2008 , 77,	3.3	22
612	Chiral quasiparticle local density of states maps in graphene. <i>Physical Review B</i> , 2008 , 78,	3.3	22
611	Structural and electronic properties of bilayer epitaxial graphene. 2008, 26, 938-943		24
610	Topology and electron scattering properties of the electronic interfaces in epitaxial graphene probed by resonant tunneling spectroscopy. <i>Physical Review B</i> , 2008 , 78,	3.3	17
609	Quasiparticle chirality in epitaxial graphene probed at the nanometer scale. 2008, 101, 206802		125
608	Graphene on the C-terminated SiC (0001[) surface: An ab initio study. <i>Physical Review B</i> , 2009 , 79,	3.3	54
607	Graphene grown on Co(0001) films and islands: Electronic structure and its precise magnetization dependence. <i>Physical Review B</i> , 2009 , 80,	3.3	124
606	Electron scattering in intrananotube quantum dots. 2009 , 102, 245505		18
605	Distortion of the perfect lattice structure in bilayer graphene. <i>Physical Review B</i> , 2009 , 79,	3.3	7
604	Insights into few-layer epitaxial graphene growth on 4H-SiC(0001[) substrates from STM studies. <i>Physical Review B</i> , 2009 , 79,	3.3	192

(2009-2009)

603	Irradiation damage in graphene on SiO2 probed by local mobility measurements. 2009, 95, 263109	30)
602	Metrology for Emerging Materials, Devices, and Structures: The Example of Graphene. 2009,	1	
601	Modern Nanotemplates Based on Graphene and Single Layer h-BN. 2009 , 223, 157-168	16	5
600	Local density of states and scanning tunneling currents in graphene. 2009 , 11, 095007	26	6
599	Highly Ordered, Millimeter-Scale, Continuous, Single-Crystalline Graphene Monolayer Formed on Ru (0001). <i>Advanced Materials</i> , 2009 , 21, 2777-2780	35	5 1
598	Graphene Shape Control by Multistage Cutting and Transfer. <i>Advanced Materials</i> , 2009 , 21, 4487-4491 24	13	33
597	Topological surface states protected from backscattering by chiral spin texture. 2009 , 460, 1106-9	80	05
596	Room-temperature molecular-resolution characterization of self-assembled organic monolayers on epitaxial graphene. 2009 , 1, 206-11	37	73
595	The influence of edge structure on the electronic properties of graphene quantum dots and nanoribbons. 2009 , 8, 235-42	11	104
594	Substrate-induced array of quantum dots in a single-walled carbon nanotube. 2009 , 4, 567-70	18	3
593	Origin of spatial charge inhomogeneity in graphene. 2009 , 5, 722-726	57	74
592	Abnormal electronic transport in disordered graphene nanoribbon. 2009 , 404, 2259-2262	7	
591	Theory of charged impurity scattering in two-dimensional graphene. 2009 , 149, 1072-1079	91	Ĺ
590	Scanning Tunneling Microscopy investigation of the graphene/6H-SiC(0001) (3B) interface. 2009 , 149, 1157-1160	4	
589	Scanning tunneling microscopy and spectroscopy of graphene layers on graphite. 2009 , 149, 1151-1156	49)
588	Graphene sheets via microwave chemical vapor deposition. 2009 , 467, 361-364	11	4
587	Scanning tunneling microscopy observation of circular electronic superstructures on multiwalled carbon nanotubes functionalised by nitric acid. <i>Carbon</i> , 2009 , 47, 764-768	4 5	
586	Creation of graphene allotropes using patterned defects. <i>Carbon</i> , 2009 , 47, 2226-2232	.4 83	;

585	Symmetry of standing waves generated by a point defect in epitaxial graphene. 2009 , 69, 351-355		44
584	Scanning tunneling spectroscopy of graphene on graphite. 2009 , 102, 176804		399
583	The electronic properties of graphene. 2009 , 81, 109-162		17608
582	Factors influencing graphene growth on metal surfaces. 2009 , 11, 063046		222
581	Green∃ functions and impurity scattering in graphene. <i>Physical Review B</i> , 2009 , 79,	3.3	28
580	Broadband electromagnetic response and ultrafast dynamics of few-layer epitaxial graphene. 2009 , 94, 172102		177
579	Spatially resolved spectroscopy of monolayer graphene on SiO2. <i>Physical Review B</i> , 2009 , 79,	3.3	206
578	First direct observation of a nearly ideal graphene band structure. 2009 , 103, 226803		358
577	Hierarchy of electronic properties of chemically derived and pristine graphene probed by microwave imaging. 2009 , 9, 3762-5		50
576	Theory of scanning tunneling spectroscopy of magnetic adatoms in graphene. 2009 , 103, 206804		77
575	Hydrothermal Dehydration for the Green Reduction of Exfoliated Graphene Oxide to Graphene and Demonstration of Tunable Optical Limiting Properties. 2009 , 21, 2950-2956		1285
574	Atomic force and scanning tunneling microscopy imaging of graphene nanosheets derived from graphite oxide. 2009 , 25, 5957-68		575
573	Scanning tunneling microscopy currents on locally disordered graphene. <i>Physical Review B</i> , 2009 , 79,	3.3	22
572	Patterning graphene at the nanometer scale via hydrogen desorption. 2009 , 9, 4343-7		157
571	Aqueous Dispersion of Graphene Sheets Stabilized by Pluronic Copolymers: Formation of Supramolecular Hydrogel. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13651-13657	3.8	378
570	Exposure of epitaxial graphene on SiC(0001) to atomic hydrogen. 2009 , 9, 1462-6		131
569	Epitaxial graphene on SiC(0001) and [Formula: see text]: from surface reconstructions to carbon electronics. 2009 , 21, 134016		125
568	Character of electronic states in graphene antidot lattices: Flat bands and spatial localization. <i>Physical Review B</i> , 2009 , 80,	3.3	81

(2010-2009)

567	Remarks on the tight-binding model of graphene. 2009 , 11, 095003		96
566	Evidence for strain-induced local conductance modulations in single-layer graphene on SiO2. 2009 , 9, 2542-6		111
565	Interference effect on Raman spectrum of graphene on SiO2/Si. Physical Review B, 2009, 80,	3.3	224
564	Intrinsic and extrinsic corrugation of monolayer graphene deposited on SiO2. 2009 , 102, 076102		294
563	A novel approach towards selective bulk synthesis of few-layer graphenes in an electric arc. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 115201	3	45
562	Moirlimage patterns on double-walled carbon nanotubes observed by scanning tunneling microscopy. <i>Physical Review B</i> , 2009 , 79,	3.3	18
561	Graphene at the edge: stability and dynamics. <i>Science</i> , 2009 , 323, 1705-8	33.3	1042
560	Graphene on gold: Electron density of states studies by scanning tunneling spectroscopy. 2009 , 95, 113	3114	46
559	Scanning tunneling microscopy characterization of the electrical properties of wrinkles in exfoliated graphene monolayers. 2009 , 9, 4446-51		208
558	Quantum fluctuations in the low temperature magneto-resistance of bi-layer graphene. 2010 , 245, 012	2029	
557	Nanoanalysis of graphene layers using scanning probe techniques. 2010 , 368, 5379-89		16
556	Electronic properties of epitaxial graphene. 2010 , 7, 383		12
555	Graphene metrology and devices. 2010 , 101, 175-181		1
554	Photoreduction of Graphene Oxide Nanosheet by UV-light Illumination under H2. 2010 , 39, 750-752		22
553	General View of Graphenes. 2010 , 53, 61-65		
552	Properties of graphene: a theoretical perspective. 2010 , 59, 261-482		827
551	Simple photoreduction of graphene oxide nanosheet under mild conditions. 2010 , 2, 3461-6		190
550	Atomic Friction Investigations on Ordered Superstructures. 2010 , 39, 321-327		20

549	Long-term dynamic stability of discrete dislocations in graphene at finite temperature. 2010 , 166, 215-223	16
548	Conductance images between two STM probes in graphene. 2010 , 42, 726-728	2
547	Scattering of charge carriers in graphene induced by topological defects. 2010 , 374, 4359-4363	12
546	Discrete dislocations in graphene. 2010 , 58, 710-734	48
545	Signatures of epitaxial graphene grown on Si-terminated 6H-SiC (0 0 0 1). 2010 , 604, 84-88	19
544	Oxidation of graphene on Ru(0001) studied by scanning tunneling microscopy. <i>Applied Surface Science</i> , 2010 , 257, 82-86	15
543	The effect of heat treatment on formation of graphene thin films from graphene oxide nanosheets. <i>Carbon</i> , 2010 , 48, 509-519	453
542	Substrate-free synthesis of large area, continuous multi-layer graphene film. <i>Carbon</i> , 2010 , 48, 2394-240 0 0.4	. 22
541	Effect of local doping on the electronic properties of epitaxial graphene on SiC. 2010, 207, 595-598	5
540	Impurities in graphene. 2010 , 207, 2726-2738	5
54° 539	Impurities in graphene. 2010 , 207, 2726-2738 Local enhancement of inelastic tunnelling in epitaxial graphene on SiC(0001). 2010 , 247, 2992-2996	5 7
539	Local enhancement of inelastic tunnelling in epitaxial graphene on SiC(0001). 2010 , 247, 2992-2996	7
539 538	Local enhancement of inelastic tunnelling in epitaxial graphene on SiC(0001). 2010 , 247, 2992-2996 Patterned growth of graphene over epitaxial catalyst. 2010 , 6, 1226-33	7
539538537	Local enhancement of inelastic tunnelling in epitaxial graphene on SiC(0001). 2010, 247, 2992-2996 Patterned growth of graphene over epitaxial catalyst. 2010, 6, 1226-33 Epitaxial Graphene Elaborated on 3C-SiC(111)/Si Epilayers. 2010, 645-648, 585-588 Imaging coherent transport in graphene. Part I: mapping universal conductance fluctuations. 2010,	7 33 4
539538537536	Local enhancement of inelastic tunnelling in epitaxial graphene on SiC(0001). 2010, 247, 2992-2996 Patterned growth of graphene over epitaxial catalyst. 2010, 6, 1226-33 Epitaxial Graphene Elaborated on 3C-SiC(111)/Si Epilayers. 2010, 645-648, 585-588 Imaging coherent transport in graphene. Part I: mapping universal conductance fluctuations. 2010, 21, 274013 Large homogeneous mono-/bi-layer graphene on 6HBiC(0 0 0 1) and buffer layer elimination.	7 33 4 53
539538537536535	Local enhancement of inelastic tunnelling in epitaxial graphene on SiC(0001). 2010, 247, 2992-2996 Patterned growth of graphene over epitaxial catalyst. 2010, 6, 1226-33 Epitaxial Graphene Elaborated on 3C-SiC(111)/Si Epilayers. 2010, 645-648, 585-588 Imaging coherent transport in graphene. Part I: mapping universal conductance fluctuations. 2010, 21, 274013 Large homogeneous mono-/bi-layer graphene on 6HBiC(0 0 0 1) and buffer layer elimination. Journal Physics D: Applied Physics, 2010, 43, 374010	7 33 4 53 59

531	Local density of states and Friedel oscillations in graphene. Physical Review B, 2010, 82,	3.3	44
530	Tunneling spectroscopy of metal-oxide-graphene structure. 2010 , 97, 032104		13
529	Local density of states in the presence of impurity scattering in graphene at high magnetic field. <i>Physical Review B</i> , 2010 , 81,	3.3	4
528	Edge structure of epitaxial graphene islands. <i>Physical Review B</i> , 2010 , 81,	3.3	40
527	Interface structure of graphene on SiC: anab initioand STM approach. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 374008	3	19
526	Superlattice of resonators on monolayer graphene created by intercalated gold nanoclusters. 2010 , 91, 66004		20
525	Polarized Vibrational Infrared Absorption of Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6959-6965	3.8	10
524	Graphene Islands on Cu foils: the interplay between shape, orientation, and defects. 2010 , 10, 4890-6		325
523	Structural and frictional properties of graphene films on SiC(0001) studied by atomic force microscopy. <i>Physical Review B</i> , 2010 , 81,	3.3	114
522	Magnetism of substitutional Co impurities in graphene: Realization of single dacancies. <i>Physical Review B</i> , 2010 , 81,	3.3	162
521	Epitaxial graphene electronic structure and transport. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 3740	003	104
520	Epitaxial chemical vapor deposition growth of single-layer graphene over cobalt film crystallized on sapphire. 2010 , 4, 7407-14		247
519	Edge states propagating from a defect of graphite: Scanning tunneling spectroscopy measurements. <i>Physical Review B</i> , 2010 , 82,	3.3	46
518	Oxidation functional groups on graphene: Structural and electronic properties. <i>Physical Review B</i> , 2010 , 82,	3.3	272
517	Plasmon damping below the Landau regime: the role of defects in epitaxial graphene. 2010 , 12, 033017	7	64
516	Embedded ribbons of graphene allotropes: an extended defect perspective. 2010 , 12, 125006		63
515	Tunable resonances due to vacancies in graphene nanoribbons. <i>Physical Review B</i> , 2010 , 82,	3.3	27
514	Graphene Oxide-Assisted Dispersion of Pristine Multiwalled Carbon Nanotubes in Aqueous Media. Journal of Physical Chemistry C, 2010 , 114, 11435-11440	3.8	272

513	Unique synthesis of few-layer graphene films on carbon-doped Pt(83)Rh(17) surfaces. 2010 , 4, 1026-32		26
512	Magneto-optical Selection Rules in Bilayer Bernal Graphene. 2010 , 4, 1465-72		73
511	Atomic-Scale Investigation of Epitaxial Graphene Grown on 6H-SiC(0001) Using Scanning Tunneling Microscopy and Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13344-13348	3.8	27
510	Superconductivity in Ca-intercalated bilayer graphene. 2010 , 90, 731-738		27
509	Strain-induced pseudo-magnetic fields greater than 300 tesla in graphene nanobubbles. <i>Science</i> , 2010 , 329, 544-7	33.3	1132
508	Evolution of the Raman spectra from single-, few-, and many-layer graphene with increasing disorder. <i>Physical Review B</i> , 2010 , 82,	3.3	503
507	Two-dimensional carbon nanostructures: Fundamental properties, synthesis, characterization, and potential applications. 2010 , 108, 071301		216
506	Atomic-scale observation of rotational misorientation in suspended few-layer graphene sheets. 2010 , 2, 700-8		38
505	Selective adsorption and electronic interaction of F16CuPc on epitaxial graphene. <i>Physical Review B</i> , 2010 , 82,	3.3	36
504	Transmission electron microscopy investigations of epitaxial graphene on C-terminated 4HBiC. 2010 , 108, 013518		33
503	Probing surface states of topological insulators: Kondo effect and Friedel oscillations in a magnetic field. <i>Physical Review B</i> , 2010 , 82,	3.3	30
502	Separation-dependent electronic transparency of monolayer graphene membranes on III-V semiconductor substrates. 2010 , 10, 3446-52		29
501	First-principles study of the doping effects in bilayer graphene. 2010 , 12, 033046		24
500	Periodicity, work function and reactivity of graphene on Ru(0001) from first principles. 2010 , 12, 043041		95
499	Quantum interference channeling at graphene edges. 2010 , 10, 943-7		83
498	Epitaxial graphene on 3C-SiC(111) pseudosubstrate: Structural and electronic properties. <i>Physical Review B</i> , 2010 , 82,	3.3	50
497	Lateral engineering of surface states - towards surface-state nanoelectronics. 2010 , 2, 717-21		23
496	Graphene nanoengineering and the inverse Stone-Thrower-Wales defect. <i>Physical Review B</i> , 2010 , 81,	3.3	91

495	Raman study of ion-induced defects in N-layer graphene. 2010 , 22, 334204		75
494	Epitaxial Graphenes on Silicon Carbide. 2010 , 35, 296-305		164
493	Compressibility of the electron gas in bilayer graphene. <i>Physical Review B</i> , 2010 , 82,	3	26
492	Fabrication of ultrasensitive graphene nanobiosensors. 2010,		2
491	Growth dynamics and kinetics of monolayer and multilayer graphene on a 6H-SiC(0001) substrate. Physical Chemistry Chemical Physics, 2010 , 12, 13522-33	5	38
490	Continuity of graphene on polycrystalline copper. 2011 , 11, 251-6		162
489	Novel synthesis of graphene foils in mesostructured silica between hexagonal and lamellar phases. 2011 , 47, 2297-9		7
488	Inducing electronic changes in graphene through silicon (100) substrate modification. 2011 , 11, 2735-42		50
487	Lithium Intercalation Induced Decoupling of Epitaxial Graphene on SiC(0001): Electronic Property and Dynamic Process. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23992-23997	3	27
486	Ethylene irradiation: a new route to grow graphene on low reactivity metals. 2011 , 11, 3576-80		53
485	Defect-like structures of graphene on copper foils for strain relief investigated by high-resolution scanning tunneling microscopy. 2011 , 5, 4014-22		165
484	Graphene pn Junction: Electronic Transport and Devices. 2011 , 467-508		1
483	Controllable healing of defects and nitrogen doping of graphene by CO and NO molecules. <i>Physical Review B</i> , 2011 , 83,	3	62
482	Electron Wave Function in Armchair Graphene Nanoribbons. 2011 , 80, 044710		23
481	Covalent Chemistry for Graphene Electronics. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2487-2498 6	4	118
480	STM studies of single molecules: molecular orbital aspects. 2011 , 47, 2747-62		8
479	Electronic structure of graphene on single-crystal copper substrates. <i>Physical Review B</i> , 2011 , 84, 3.3	3	134
478	Local electronic properties of graphene on a BN substrate via scanning tunneling microscopy. 2011 , 11, 2291-5		475

477	Scanning Probe Based Nanolithography and Nanomanipulation on Graphene. 2011, 357-386	4
476	Topological anisotropy of stone-wales waves in graphenic fragments. 2011 , 12, 7934-49	33
475	Point defects on graphene on metals. 2011 , 107, 116803	181
474	Theoretical Study of the Electron Transport in Graphene with Vacancy and Residual Oxygen Defects after High-Temperature Reduction. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9719-9725	26
473	Origin of the high p-doping in F intercalated graphene on SiC. 2011 , 99, 053117	28
472	Fourier-transform scanning tunnelling spectroscopy: the possibility to obtain constant-energy maps and band dispersion using a local measurement. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 464010 ³	58
471	Direct synthesis of lithium-intercalated graphene for electrochemical energy storage application. 2011 , 5, 4345-9	110
470	Atomic-scale characterization of graphene grown on copper (100) single crystals. 2011 , 133, 12536-43	136
469	Graphene Composites. 2011,	4
468	Quasi-free-standing epitaxial graphene on SiC (0001) by fluorine intercalation from a molecular source. 2011 , 5, 7662-8	87
467	Visualizing individual nitrogen dopants in monolayer graphene. <i>Science</i> , 2011 , 333, 999-1003	697
466	Toward N-Doped Graphene via Solvothermal Synthesis. 2011 , 23, 1188-1193	872
465	Graphene on the carbon face of SiC: Electronic structure modification by hydrogen intercalation. <i>Physical Review B</i> , 2011 , 83,	13
464	Scanning Tunneling Microscopy and Spectroscopy of Graphene. 2011 , 57-91	
463	Evaluation Criteria for Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11327-1133 5 .8	409
462	Epitaxial Graphene on SiC(0001). 2011 , 135-159	O
461	Quantum-confined electronic states in atomically well-defined graphene nanostructures. 2011 , 107, 236803	93
460	Graphene: Status and prospects as a microwave material. 2011 ,	1

459	Electronic Properties of Graphene Probed at the Nanoscale. 2011 ,		4
458	Evolution of microscopic localization in graphene in a magnetic field from scattering resonances to quantum dots. 2011 , 7, 245-251		108
457	Microscopic polarization in bilayer graphene. 2011 , 7, 649-655		107
456	Direct observation of electron confinement in epitaxial graphene nanoislands. 2011 , 5, 8162-6		60
455	Structural defects in graphene. 2011 , 5, 26-41		2388
454	Core-shell MoO3-MoS2 nanowires for hydrogen evolution: a functional design for electrocatalytic materials. 2011 , 11, 4168-75		969
453	Quo vadis, NASA?. 2011 , 7, 587-587		
452	Electronic transport in two-dimensional graphene. 2011 , 83, 407-470		2416
451	Grain boundary loops in graphene. <i>Physical Review B</i> , 2011 , 83,	3.3	145
450	Femtosecond carrier dynamics in bulk graphite and graphene paper. 2011 , 504, 37-40		40
449	Scanning tunneling microscopy and spectroscopy of graphene on insulating substrates. 2011 , 248, 2423-	2434	29
448	Structured graphene devices for mass transport. 2011 , 7, 775-80		15
447	Healing of structural defects in the topmost layer of graphite by chemical vapor deposition. <i>Advanced Materials</i> , 2011 , 23, 1675-8	24	42
446	Vacancy clusters as entry ports for cesium intercalation in graphite. <i>Carbon</i> , 2011 , 49, 3937-3952	10.4	25
445	Strain enhanced defect reactivity at grain boundaries in polycrystalline graphene. Carbon, 2011, 49, 3983	3 <u>-</u> 32 88	369
444	Peeling off graphene from Co nanoparticle covered graphite in a scanning tunneling microscope. <i>Carbon</i> , 2011 , 49, 2258-2263	10.4	3
443	Label-free electrochemical detection of cancer marker based on graphenellobalt hexacyanoferrate nanocomposite. 2011 , 655, 50-55		54

441	Structural analysis of PTCDA monolayers on epitaxial graphene with ultra-high vacuum scanning tunneling microscopy and high-resolution X-ray reflectivity. 2011 , 605, 1685-1693	53
440	Strain-induced pseudo-magnetic fields and charging effects on CVD-grown graphene. 2011 , 605, 1649-1656	50
439	Growth of 3CBiC on 150-mm Si(100) substrates by alternating supply epitaxy at 1000 °C. 2011 , 519, 6443-644	6 78
438	Intrinsic quasi-particle dynamics of topological metallic states. 2011 , 13, 013008	12
437	Imaging confined charge density oscillations on graphite at room temperature. <i>Physical Review B</i> , 2011 , 84,	7
436	Controlling doping in graphene through a SiC substrate: A first-principles study. <i>Physical Review B</i> , 2011 , 83,	26
435	System-level analysis of graphene klein tunneling device. 2011 ,	1
434	Intravalley multiple scattering of quasiparticles in graphene. <i>Physical Review B</i> , 2011 , 83, 3.3	10
433	Controlling the self-doping of epitaxial graphene on SiC via Ar ion treatment. <i>Physical Review B</i> , 2011 , 84,	19
432	In situ doping of graphene by exfoliation in a nitrogen ambient. 2011 , 98, 113115	25
431	CHARGE PUDDLES AND EDGE EFFECT IN A GRAPHENE DEVICE AS STUDIED BY A SCANNING GATE MICROSCOPE. 2011 , 20, 205-216	2
430	Transport Properties of Graphene with Nanoscale Lateral Resolution. 2011, 247-285	8
429	Electronic Properties of Defect-Free and Defective Bilayer Graphene in an Electric Field. 2011 , 19, 532-539	21
428	Silicon intercalation at the interface of graphene and Ir(111). 2012 , 100, 083101	60
427	Structure and stability of the interface between graphene and 6H-SiC(0 0 0 🗓) (3 🖪): an STM andab initiostudy. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 154003	14
426	Phonon engineering in nanostructures: Controlling interfacial thermal resistance in multilayer-graphene/dielectric heterojunctions. 2012 , 101, 113111	45
425	Formation of nitrogen-vacancy complexes during plasma-assisted nitrogen doping of epitaxial graphene on SiC(0001). 2012 , 100, 233119	11
424	Atomic-scale transport in epitaxial graphene. 2011 , 11, 114-9	149

423	Epitaxial kinetics with an intermediate polyatomic species. <i>Physical Review B</i> , 2012 , 85,	3.3	3
422	Reversible hydrogenation of deuterium-intercalated quasi-free-standing graphene on SiC(0001). <i>Physical Review B</i> , 2012 , 85,	3.3	12
421	Atomic control of strain in freestanding graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	59
420	Stress-induced annihilation of Stone Wales defects in graphene nanoribbons. <i>Journal Physics D:</i> Applied Physics, 2012 , 45, 305303	3	28
419	Role of atomic terraces and steps in the electron transport properties of epitaxial graphene grown on SiC. 2012 , 2, 012115		19
418	Direct determination of the chemical bonding of individual impurities in graphene. 2012 , 109, 206803		189
417	Growth and electronic structure of nitrogen-doped graphene on Ni(111). <i>Physical Review B</i> , 2012 , 86,	3.3	73
416	Ab initio investigation of the electronic properties of graphene on InAs(111)A. 2012 , 24, 485004		3
415	A structural stability diagram of multiple vacancies and defect self-healing in graphene. 2012 , 4, 7489-9	93	15
414	Atomic-scale study of scattering and electronic properties of CVD graphene grain boundaries. 2012		1
413	Comparison of Epitaxial Graphene Growth on Polar and Nonpolar 6H-SiC Faces: On the Growth of Multilayer Films. 2012 , 12, 3379-3387		27
412	Stacking faults and partial dislocations in graphene. 2012 , 92, 2004-2021		17
411	Long-wavelength local density of states oscillations near graphene step edges. 2012 , 108, 016801		32
410	Atomic-Scale Investigation of Highly Stable Pt Clusters Synthesized on a Graphene Support for Catalytic Applications. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26066-26071	3.8	7
409	Scanning tunneling microscopy of two-dimensional semiconductors: Spin properties and disorder. 2012 , 44, 1795-1814		21
408	STM/STS investigation of edge structure in epitaxial graphene. 2012 , 606, 1289-1292		21
407	Influence of typical defects on thermal conductivity of graphene nanoribbons: An equilibrium molecular dynamics simulation. <i>Applied Surface Science</i> , 2012 , 258, 9926-9931	6.7	37
406	Atomic-scale morphology and electronic structure of manganese atomic layers underneath epitaxial graphene on SiC(0001). 2012 , 6, 6562-8		42

405	Mapping Dirac quasiparticles near a single Coulomb impurity on graphene. 2012, 8, 653-657	99
404	Planar tunneling measurements of the energy gap in biased bilayer graphene. 2012 , 112, 094510	
403	Role of pseudospin in quasiparticle interferences in epitaxial graphene probed by high-resolution scanning tunneling microscopy. <i>Physical Review B</i> , 2012 , 86,	60
402	Abnormal pseudospin-degenerate states in a graphene quantum dot with double vacancy defects. 2012 , 112, 014308	4
401	Electronic properties of graphene: a perspective from scanning tunneling microscopy and magnetotransport. 2012 , 75, 056501	180
400	Improved electrochemical performance of Li4Ti5O12 with a variable amount of graphene as a conductive agent for rechargeable lithium-ion batteries by solvothermal method. 2012 , 136, 1044-1051	40
399	Breakdown of continuum mechanics for nanometre-wavelength rippling of graphene. 2012, 8, 739-742	190
398	Photo-induced charge separation across the graphene-TiO2 interface is faster than energy losses: a time-domain ab initio analysis. 2012 , 134, 14238-48	206
397	Silicon layer intercalation of centimeter-scale, epitaxially grown monolayer graphene on Ru(0001). 2012 , 100, 093101	90
396	Ge-intercalated graphene: The origin of the p-type to n-type transition. 2012 , 99, 57002	9
395	Preparation and characterization of pH- and temperature-responsive hydrogels with surface-functionalized graphene oxide as the crosslinker. 2012 , 8, 3139	62
394	Extended graphynes: simple scaling laws for stiffness, strength and fracture. 2012 , 4, 7797-809	131
393	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. 2012 , 2, 586	517
392	Quasiparticle scattering off phase boundaries in epitaxial graphene. 2012 , 23, 055706	14
391	Evidence for Dirac fermions in a honeycomb lattice based on silicon. 2012 , 109, 056804	577
390	Effect of defects on Young's modulus of graphene sheets: a molecular dynamics simulation. 2012 , 2, 9124	121
389	Graphene induced surface reconstruction of Cu. 2012 , 12, 3893-9	62
388	Principle, Characteristic and Application of Scanning Probe Microscope Series. 2012 , 6, 48-57	1

387	Graphing and grafting graphene: Classifying finite topological defects. Physical Review B, 2012, 85,	3.3	23
386	Greener Electrochemical Synthesis of High Quality Graphene Nanosheets Directly from Pencil and its SPR Sensing Application. 2012 , 22, 2352-2362		116
385	Atom-by-atom observation of grain boundary migration in graphene. 2012 , 12, 3168-73		154
384	Terahertz Properties of Graphene. 2012 , 33, 797-815		59
383	Friedel Oscillations Around a Short Range Scatterer: The Case of Graphene. 2012 , 25, 691-697		2
382	Spatially resolved electronic inhomogeneities of graphene due to subsurface charges. <i>Carbon</i> , 2012 , 50, 932-938	10.4	23
381	Controllable growth of single-layer graphene on a Pd(111) substrate. <i>Carbon</i> , 2012 , 50, 1674-1680	10.4	33
380	Supercapacitor performances of thermally reduced graphene oxide. 2012 , 198, 423-427		328
379	Facile method to prepare Pd/graphenepolyaniline nanocomposite and used as new electrode material for electrochemical sensing. 2012 , 353-354, 80-86		46
378	Electronic substrate-mediated interactions. 2012 , 67, 19-81		65
377	The surface science of graphene: Metal interfaces, CVD synthesis, nanoribbons, chemical modifications, and defects. 2012 , 67, 83-115		660
376	Scanning probe microscopy of graphene. 2012 , 44, 743-759		27
375	Graphene Nanoribbon Tunneling Field-Effect Transistors With a Semiconducting and a Semimetallic Heterojunction Channel. 2012 , 59, 1454-1461		6
374	Extreme ultraviolet induced defects on few-layer graphene. 2013 , 114, 044313		12
373	Thermoelectric imaging of structural disorder in epitaxial graphene. 2013 , 12, 913-8		44
372	Short-range potential scattering and its effect on graphene mobility. 2013 , 12, 76-84		17
371	Effects of a grain boundary loop on the thermal conductivity of graphene: A molecular dynamics study. 2013 , 79, 132-135		25
370	Cl-intercalated graphene on SiC: Influence of van der Waals forces. 2013 , 101, 27008		10

369	Observation of Dirac cone warping and chirality effects in silicene. 2013 , 7, 9049-54		83
368	Growth and Structural Properties of Pb Islands on Epitaxial Graphene on Ru(0001). <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22652-22655	3.8	13
367	Solid-source growth and atomic-scale characterization of graphene on Ag(111). 2013, 4,		95
366	Facile synthesis of water-soluble fullerenegraphene oxide composites for electrodeposition of phosphotungstic acid-based electrocatalysts. 2013 , 111, 738-745		39
365	Measurement of the intrinsic strength of crystalline and polycrystalline graphene. 2013, 4,		213
364	Chemically resolved interface structure of epitaxial graphene on SiC(0001). 2013, 111, 215501		57
363	Rearrangement of Electron network and switching of edge-localized Istate in reduced graphene oxide. 2013 , 7, 11190-9		16
362	Electronic structures of graphene layers on a metal foil: The effect of atomic-scale defects. 2013 , 103, 143120		31
361	From nanographene to monolayer graphene on 6H-SiC(0001) substrate. 2013 , 102, 253108		12
360	Facile preparation, high microwave absorption and microwave absorbing mechanism of RGOHe3O4 composites. 2013 , 3, 23638		313
360 359		3.3	313
	RGOFie3O4 composites. 2013 , 3, 23638 Electronic structure of graphene on a reconstructed Pt(100) surface: Hydrogen adsorption, doping,	3-3	
359	RGOEe3O4 composites. 2013 , 3, 23638 Electronic structure of graphene on a reconstructed Pt(100) surface: Hydrogen adsorption, doping, and band gaps. <i>Physical Review B</i> , 2013 , 88,	3-3	15
359 358	Electronic structure of graphene on a reconstructed Pt(100) surface: Hydrogen adsorption, doping, and band gaps. <i>Physical Review B</i> , 2013 , 88, Elastic scattering of surface states on three-dimensional topological insulators. 2013 , 22, 067301 Enhanced Photoelectrochemical Oxygen Evolution Reaction based on Surface Autocatalytic Effect	3-3	15 5
359 358 357	Electronic structure of graphene on a reconstructed Pt(100) surface: Hydrogen adsorption, doping, and band gaps. <i>Physical Review B</i> , 2013 , 88, Elastic scattering of surface states on three-dimensional topological insulators. 2013 , 22, 067301 Enhanced Photoelectrochemical Oxygen Evolution Reaction based on Surface Autocatalytic Effect of Ultrathin 3C-SiC Nanocrystals. 2013 , 160, H620-H623 Intercalation of metals and silicon at the interface of epitaxial graphene and its substrates. 2013 ,	3-3	15 5 1
359 358 357 356	Electronic structure of graphene on a reconstructed Pt(100) surface: Hydrogen adsorption, doping, and band gaps. <i>Physical Review B</i> , 2013 , 88, Elastic scattering of surface states on three-dimensional topological insulators. 2013 , 22, 067301 Enhanced Photoelectrochemical Oxygen Evolution Reaction based on Surface Autocatalytic Effect of Ultrathin 3C-SiC Nanocrystals. 2013 , 160, H620-H623 Intercalation of metals and silicon at the interface of epitaxial graphene and its substrates. 2013 , 22, 096803 Two types of meta-crystals for IV group elements: Density functional theory calculations. 2013 ,	3-3	15 5 1
359 358 357 356 355	Electronic structure of graphene on a reconstructed Pt(100) surface: Hydrogen adsorption, doping, and band gaps. <i>Physical Review B</i> , 2013 , 88, Elastic scattering of surface states on three-dimensional topological insulators. 2013 , 22, 067301 Enhanced Photoelectrochemical Oxygen Evolution Reaction based on Surface Autocatalytic Effect of Ultrathin 3C-SiC Nanocrystals. 2013 , 160, H620-H623 Intercalation of metals and silicon at the interface of epitaxial graphene and its substrates. 2013 , 22, 096803 Two types of meta-crystals for IV group elements: Density functional theory calculations. 2013 , 410, 17-21	3.3	15 5 1

351	Semiclassical deconstruction of quantum states in graphene. <i>Physical Review B</i> , 2013 , 88,	3.3	8
350	Graphene at the Atomic-Scale: Synthesis, Characterization, and Modification. 2013 , 23, 2554-2564		27
349	Intercalation of Li at the Graphene/Cu Interface. Journal of Physical Chemistry C, 2013, 117, 9259-9265	3.8	16
348	Theoretical study on the interaction between graphene divacancies and C2H2. 2013 , 567, 43-47		3
347	Nano-graphene oxide: a potential multifunctional platform for cancer therapy. 2013 , 2, 1072-90		128
346	Primary and tertiary amines bifunctional graphene oxide for cooperative catalysis. 2013 , 5, 6030-3		77
345	Pseudo Dirac dispersion in Mn-intercalated graphene on SiC. 2013 , 578, 81-84		7
344	Preparation and characterization of pH- and temperature-responsive nanocomposite double network hydrogels. 2013 , 33, 1951-7		64
343	Laminated magnetic graphene with enhanced electromagnetic wave absorption properties. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 765-777	7.1	575
342	One-step synthesis of graphene via catalyst-free gas-phase hydrocarbon detonation. 2013 , 24, 245602		38
341	Influence of the degree of decoupling of graphene on the properties of transition metal adatoms. <i>Physical Review B</i> , 2013 , 87,	3.3	38
340	Mixed phase, sp28p3 bonded, and disordered few layer graphene-like nanocarbon: Synthesis and characterizations. <i>Applied Surface Science</i> , 2013 , 271, 86-92	6.7	17
339	Valley spin polarization by using the extraordinary Rashba effect on silicon. 2013, 4, 2073		64
338	Fast benchtop visualization of graphene grain boundaries using adhesive properties of defects. 2013 , 49, 5474-6		17
337	Atomic-scale mapping of thermoelectric power on graphene: role of defects and boundaries. 2013 , 13, 3269-73		48
336	Graphene ultrathin film electrode for detection of lead ions in acetate buffer solution. 2013 , 103, 47-55	5	22
335	Quantifying many-body effects by high-resolution Fourier transform scanning tunneling spectroscopy. 2013 , 111, 246804		13
334	Defect-induced conductivity anisotropy in MoS2 monolayers. <i>Physical Review B</i> , 2013 , 88,	3.3	126

333	Interplay between edge states and simple bulk defects in graphene nanoribbons. 2013, 86, 1		3
332	Facile synthesis of RGO/Fe3O4/Ag composite with high microwave absorption capacity. 2013 , 111, 188-19	1	40
331	Engineering electronic properties of graphene by coupling with Si-rich, two-dimensional islands. 2013 , 7, 301-7		25
330	Topological metal behavior in GeBi2Te4 single crystals. <i>Physical Review B</i> , 2013 , 88, 3.3	3	7
329	Atomic-scale movement induced in nanoridges by scanning tunneling microscopy on epitaxial graphene grown on 4H-SiC(0001). 2013 , 31, 04D101		2
328	Large-scale uniform bilayer graphene prepared by vacuum graphitization of 6H-SiC(0001) substrates. 2013 , 25, 095002		52
327	Tunneling spectroscopy of graphene using planar Pb probes. 2013 , 102, 023102		6
326	Visualizing atomic-scale negative differential resistance in bilayer graphene. 2013 , 110, 036804		18
325	Effects of vacancy defects on graphene nanoribbon field effect transistor. 2013 , 8, 816-821		27
324	Buffer layer induced band gap and surface low energy optical phonon scattering in epitaxial graphene on SiC(0001). 2013 , 102, 013107		20
323	Eliminating defects from graphene monolayers during chemical exfoliation. 2013, 102, 043102		11
322	Spectral footprints of impurity scattering in graphene nanoribbons. <i>Physical Review B</i> , 2013 , 87, 3.3	3	9
321	Si-adatom kinetics in defect mediated growth of multilayer epitaxial graphene films on 6H-SiC. 2013 , 114, 164903		6
320	Tuning two-dimensional band structure of Cu(111) surface-state electrons that interplay with artificial supramolecular architectures. <i>Physical Review B</i> , 2013 , 88,	3	35
319	Local transport measurements at mesoscopic length scales using scanning tunneling potentiometry. 2013 , 110, 236802		25
318	Density of States and Its Local Fluctuations Determined by Capacitance of Strongly Disordered Graphene. 2013 , 3,		19
317	Atomic and electronic structure of an alloyed topological insulator, Bi1.5Sb0.5Te1.7Se1.3. 2013 , 3, 2656		33
316	Electro-Deoxidation Behavior of Graphite Oxide in Aqueous Solution. 2013 , 46, 245-249		1

315	CHARGE PUDDLES AND EDGE EFFECT IN A GRAPHENE DEVICE AS STUDIED BY A SCANNING GATE MICROSCOPE. 2013 ,	
314	Aqueous Colloidal Stability of Graphene Oxide and Chemically Converted Graphene. 2014 , 2014, 1-6	53
313	Effect of inter-adatoms correlations on the local density of states of graphene. 2014 , 108, 47006	
312	Temperature and pH effect on reduction of graphene oxides in aqueous solution. 2014 , 1, 035605	9
311	Direct experimental determination of onset of electron-electron interactions in gap opening of zigzag graphene nanoribbons. 2014 , 5, 4311	74
310	Mechanical and thermal stability of graphene and graphene-based materials. 2014 , 57, 970-989	79
309	Effects of graphene defects on Co cluster nucleation and intercalation. 2014 , 23, 088108	3
308	Moir[patterns and step edges on few-layer graphene grown on nickel films. 2014 , 23, 116801	4
307	Graphene Synthesis on Specified Location. 2014 , 609-610, 159-164	
306	Orbital symmetry fingerprints for magnetic adatoms in graphene. 2014 , 16, 013045	14
305	Enhanced intervalley scattering in artificially stacked double-layer graphene. 2014 , 16, 083020	12
304	Dual-probe spectroscopic fingerprints of defects in graphene. <i>Physical Review B</i> , 2014 , 90, 3.3	9
303	Identification of dominant scattering mechanism in epitaxial graphene on SiC. 2014, 104, 183102	11
302	Graphene on Crystalline Metal Surfaces. 2014 , 691-736	
301	Band structure mapping of bilayer graphene via quasiparticle scattering. 2014 , 2, 092503	18
300	Dual pH- and temperature-responsive hydrogels with extraordinary swelling/deswelling behavior and enhanced mechanical performances. 2014 , 132, n/a-n/a	2
299	Repeated growth-etching-regrowth for large-area defect-free single-crystal graphene by chemical vapor deposition. 2014 , 8, 12806-13	87
298	Rashba splitting of graphene-covered Au(111) revealed by quasiparticle interference mapping. Physical Review B, 2014 , 90,	15

297	Preferential antiferromagnetic coupling of vacancies in graphene on SiO2: Electron spin resonance and scanning tunneling spectroscopy. <i>Physical Review B</i> , 2014 , 90,	3.3	16
296	Energy Gap Induced by Friedel Oscillations Manifested as Transport Asymmetry at Monolayer-Bilayer Graphene Boundaries. 2014 , 4,		27
295	Probing Dirac Fermions in Graphene by Scanning Tunneling Microscopy and Spectroscopy. 2014 , 29-63		2
294	Facile and green reduction of covalently PEGylated nanographene oxide via a 'water-only' route for high-efficiency photothermal therapy. 2014 , 9, 86		32
293	Construction of 2D atomic crystals on transition metal surfaces: graphene, silicene, and hafnene. 2014 , 10, 2215-25		74
292	Incorporating isolated molybdenum (Mo) atoms into bilayer epitaxial graphene on 4H-SiC(0001). 2014 , 8, 970-6		23
291	Theoretical analysis of a dual-probe scanning tunneling microscope setup on graphene. 2014 , 112, 0968	01	24
290	Confinement of Dirac electrons in graphene quantum dots. <i>Physical Review B</i> , 2014 , 89,	3.3	31
289	Cooperative island growth of large-area single-crystal graphene on copper using chemical vapor deposition. 2014 , 8, 5657-69		84
288	In situ fabrication of quasi-free-standing epitaxial graphene nanoflakes on gold. 2014 , 8, 3735-42		47
287	Insight into the capacitive properties of reduced graphene oxide. 2014 , 6, 2248-54		44
286	Rotated domain network in graphene on cubic-SiC(001). 2014 , 25, 135605		12
285	Effects of temperature and ammonia flow rate on the chemical vapour deposition growth of nitrogen-doped graphene. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19446-52	3.6	18
284	Synthesis and microwave absorption property of flexible magnetic film based on graphene oxide/carbon nanotubes and Fe3O4 nanoparticles. 2014 , 2, 14940		254
283	Reduced graphene oxide supported piperazine in aminocatalysis. 2014 , 50, 6270-3		35
282	Bandgap engineering through nanocrystalline magnetic alloy grafting on reduced graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19661-7	3.6	9
281	Electronic states at the graphene-hexagonal boron nitride zigzag interface. 2014 , 14, 5128-32		72
280	Low-temperature remote plasma-enhanced atomic layer deposition of graphene and characterization of its atomic-level structure. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7570-7574	7.1	31

279	Colloquium: Graphene spectroscopy. 2014 , 86, 959-994		184
278	Dirac materials. 2014 , 63, 1-76		589
277	Graphene on hexagonal boron nitride. 2014 , 26, 303201		61
276	Quantum coherence of bulk electrons on metals revealed by scanning tunneling spectroscopy. <i>Physical Review B</i> , 2014 , 89,	3.3	1
275	Scanning tunneling microscopy (STM) of graphene. 2014 , 124-155		
274	Electronic transport in graphene: towards high mobility. 2014, 199-227		17
273	Epitaxial growth of large-area bilayer graphene on Ru(0001). 2014, 104, 093110		25
272	Phosphotungstic Acid Immobilized on Amine-Grafted Graphene Oxide as Acid/Base Bifunctional Catalyst for One-Pot Tandem Reaction. 2014 , 53, 1437-1441		38
271	Conjoined structures of carbon nanotubes and graphene nanoribbons. 2014 , 89, 044008		7
270	Quasiparticle scattering from topological crystalline insulator SnTe (001) surface states. <i>Physical Review B</i> , 2014 , 89,	3.3	19
269	High-quality monolayer graphene synthesis on Pd foils via the suppression of multilayer growth at grain boundaries. 2014 , 10, 4003-11		16
268	At the deep end. 2014 , 17, 203-204		
267	Discrete Sommerfeld diffraction problems on hexagonal lattice with a zigzag semi-infinite crack and rigid constraint. 2015 , 66, 3591-3625		8
266	Charge oscillations and interaction between potassium adatoms on graphene studied by first-principles calculations. <i>Physical Review B</i> , 2015 , 91,	3.3	9
265	Disorder and screening in decoupled graphene on a metallic substrate. <i>Physical Review B</i> , 2015 , 91,	3.3	10
264	Band-gap opening in graphene: A reverse-engineering approach. <i>Physical Review B</i> , 2015 , 92,	3.3	24
263	Detecting giant electron-hole asymmetry in a graphene monolayer generated by strain and charged-defect scattering via Landau level spectroscopy. <i>Physical Review B</i> , 2015 , 92,	3.3	29
262	Local Spectroscopic Characterization of Spin and Layer Polarization in WSe_{2}. 2015 , 115, 136803		36

261	Delocalized Surface State in Epitaxial Si(111) Film with Spontaneous B I Superstructure. 2015 , 5, 13590	33
260	Bifunctional effects of the ordered Si atoms intercalated between quasi-free-standing epitaxial graphene and SiC(0001): graphene doping and substrate band bending. 2015 , 17, 083058	7
259	Controllable Synthesis of 3D Hollow-Carbon-Spheres/Graphene-Flake Hybrid Nanostructures from Polymer Nanocomposite by Self-Assembly and Feasibility for Lithium-Ion Batteries. 2015 , 32, 874-879	15
258	Influence of (RGO)/(ferrite) ratios and graphene reduction degree on microwave absorption properties of graphene composites. 2015 , 644, 491-501	53
257	Graphene on SiC(0001) inspected by dynamic atomic force microscopy at room temperature. 2015 , 6, 901-6	9
256	Role of lattice defects in catalytic activities of graphene clusters for fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 16733-43	139
255	Graphene-supported metal/metal oxide nanohybrids: synthesis and applications in heterogeneous catalysis. 2015 , 5, 3903-3916	105
254	Reduction of Graphene Oxide via Modified Hydrothermal Method. 2015 , 11, 326-330	51
253	Controllable Growth of the Graphene from Millimeter-Sized Monolayer to Multilayer on Cu by Chemical Vapor Deposition. 2015 , 10, 455	15
252	Preparation of graphene nanoflakes and its application for detection of hydrazine. 2015 , 210, 692-699	52
251	Defects in Graphene: Generation, Healing, and Their Effects on the Properties of Graphene: A Review. 2015 , 31, 599-606	216
250	Well-defined two dimensional covalent organic polymers: rational design, controlled syntheses, and potential applications. 2015 , 6, 1896-1911	162
249	First-Principles Study of Dislocation Slips in Impurity-Doped Graphene. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3418-3427	8
248	Chemically converting graphene oxide to graphene with organic base for Suzuki reaction. 2015 , 67, 77-82	15
247	Nanoporous graphene materials by low-temperature vacuum-assisted thermal process for electrochemical energy storage. 2015 , 284, 146-153	37
246	Nitrotyrosine adsorption on defective graphene: A density functional theory study. 2015 , 70, 170-175	7
245	A low-surface energy carbon allotrope: the case for bcc-C6. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14083-7	9
244	Physics. Creating and probing electron whispering-gallery modes in graphene. <i>Science</i> , 2015 , 348, 672-5 33-3	133

243 Probing Topological Insulator Surface States by Scanning Tunneling Microscope. **2015**, 217-244

242	Enhancing CVD graphene's inter-grain connectivity by a graphite promoter. 2015 , 7, 19403-7	7
241	Big data in reciprocal space: Sliding fast Fourier transforms for determining periodicity. 2015 , 106, 091601	29
240	Graphene on weakly interacting metals: Dirac states versus surface states. <i>Physical Review B</i> , 2015 , 91,	17
239	ImprovingION/IOFFand sub-threshold swing in graphene nanoribbon field-effect transistors using single vacancy defects. 2015 , 86, 483-492	19
238	Overviews of Synthesis of Nanomaterials. 2015 , 51-115	6
237	Silicene: from monolayer to multilayer 🖪 concise review. 2015 , 24, 086102	10
236	Preserving the 7 🏿 surface reconstruction of clean Si(111) by graphene adsorption. 2015 , 107, 071603	7
235	Honeycomb silicon: a review of silicene. 2015 , 60, 1551-1562	60
234	Observation of intervalley quantum interference in epitaxial monolayer tungsten diselenide. 2015 , 6, 8180	49
233	Controllable synthesis of graphene using novel aromatic 1,3,5-triethynylbenzene molecules on Rh(111). 2015 , 5, 76620-76625	6
232	Electron beam irradiation dose dependent physico-chemical and electrochemical properties of reduced graphene oxide for supercapacitor. 2015 , 184, 427-435	27
231	Ortho and para hydrogen dimers on G/SiC(0001): combined STM and DFT study. 2015, 31, 233-9	12
230	Momentum-resolved STM studies of Rashba-split surface states on the topological semimetal Sb. 2015 , 201, 66-73	6
229	Scanning tunneling microscopy evidences for surface electron scattering by underlying atoms. <i>Carbon</i> , 2015 , 84, 74-81	5
228	Elementary process for CVD graphene on Cu(110): size-selective carbon clusters. 2014 , 4, 4431	26
227	Emerging applications of graphene and its derivatives in carbon capture and conversion: Current status and future prospects. 2015 , 41, 1515-1545	45
226	Temperature: a nonnegligible factor for the formation of a structurally stable, self-assembled reduced graphite oxide hydrogel. 2015 , 5, 10-15	13

225	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. 2015 , 7, 4598-810	2015
224	Electronic Structure and Topological Quantum Phase Transitions in Strained Graphene Nanoribbons. 2016 ,	
223	Effects of Pb Intercalation on the Structural and Electronic Properties of Epitaxial Graphene on SiC. 2016 , 12, 3956-66	23
222	An Effective Approach for the Identification of Carrier Type and Local Inversion Doping in Graphene by Biased Atomic Force Microscopy. 2016 , 2, 1500255	7
221	Restoring a nearly free-standing character of graphene on Ru(0001) by oxygen intercalation. 2016 , 6, 20285	39
220	Conductance fluctuations in high mobility monolayer graphene: Nonergodicity, lack of determinism and chaotic behavior. 2016 , 6, 33118	3
219	Fingerprints of Multiple Electron Scatterings in Single-Layer Graphene. 2016 , 6, 22570	2
218	Gate-independent energy gap in noncovalently intercalated bilayer graphene on SiC(0001). <i>Physical Review B</i> , 2016 , 94,	2
217	Imaging chiral symmetry breaking from Kekullbond order in graphene. 2016 , 12, 950-958	56
216	Substitutional doping of Ag into epitaxial graphene on 6H-SiC substrates during thermal decomposition. <i>Carbon</i> , 2016 , 104, 233-240	16
215	Atomic-scale control of graphene magnetism by using hydrogen atoms. <i>Science</i> , 2016 , 352, 437-41 33.3	408
214	Graphene Tunable Transparency to Tunneling Electrons: A Direct Tool To Measure the Local Coupling. 2016 , 10, 5131-44	19
213	The Effects of Substrates on 2D Crystals. 2016 , 67-113	5
212	Dispersing artifacts in FT-STS: a comparison of set point effects across acquisition modes. 2016 , 27, 414004	6
211	Effect of thermal annealing on the heat transfer properties of reduced graphite oxide flakes: A nanoscale characterization via scanning thermal microscopy. <i>Carbon</i> , 2016 , 109, 390-401	37
21 0	Phases and Interfaces from Real Space Atomically Resolved Data: Physics-Based Deep Data Image Analysis. 2016 , 16, 5574-81	26
209	Electronic Properties and Transport in Finite-Size Two-Dimensional Carbons. 2016 , 91-103	1
208	Kinetic Modulation of Outer-Sphere Electron Transfer Reactions on Graphene Electrode with a Sub-surface Metal Substrate. 2016 , 211, 1016-1023	26

207	Holographic maps of quasiparticle interference. 2016 , 12, 1052-1056	12
206	Signatures of Fermi Arcs in the Quasiparticle Interferences of the Weyl Semimetals TaAs and NbP. 2016 , 116, 066601	43
205	Interlayer thermal conductance within a phosphorene and graphene bilayer. 2016 , 8, 19211-19218	43
204	Graphene in Photocatalysis: A Review. 2016 , 12, 6640-6696	605
203	The Talbot Effect for two-dimensional massless Dirac fermions. 2016 , 6, 26698	13
202	Band Alignment and Minigaps in Monolayer MoS2-Graphene van der Waals Heterostructures. 2016 , 16, 4054-61	230
201	Nitrogen Doped Graphene as Metal Free Electrocatalyst for Efficient Oxygen Reduction Reaction in Alkaline Media and Its Application in Anion Exchange Membrane Fuel Cells. 2016 , 163, F848-F855	59
200	Current-Driven Hydrogen Desorption from Graphene: Experiment and Theory. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 486-94	6
199	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. 2016 , 10, 1378-85	93
198	Rotationally Commensurate Growth of MoS2 on Epitaxial Graphene. 2016 , 10, 1067-75	154
198 197	Rotationally Commensurate Growth of MoS2 on Epitaxial Graphene. 2016 , 10, 1067-75 Friedel oscillations: Decoding the hidden physics. 2016 , 17, 302-321	154 8
197	Friedel oscillations: Decoding the hidden physics. 2016 , 17, 302-321 Effect of base-deposited graphene oxide on the thermal stabilization of poly(vinyl chloride). 2016 ,	8
197	Friedel oscillations: Decoding the hidden physics. 2016 , 17, 302-321 Effect of base-deposited graphene oxide on the thermal stabilization of poly(vinyl chloride). 2016 , 65, 125-132	8
197 196 195	Friedel oscillations: Decoding the hidden physics. 2016 , 17, 302-321 Effect of base-deposited graphene oxide on the thermal stabilization of poly(vinyl chloride). 2016 , 65, 125-132 Tight-binding calculation studies of vacancy and adatom defects in graphene. 2016 , 28, 115001	8 10 10
197 196 195	Friedel oscillations: Decoding the hidden physics. 2016, 17, 302-321 Effect of base-deposited graphene oxide on the thermal stabilization of poly(vinyl chloride). 2016, 65, 125-132 Tight-binding calculation studies of vacancy and adatom defects in graphene. 2016, 28, 115001 Friedel oscillations in graphene-based systems probed by Scanning Tunneling Microscopy. 2016, 17, 294-301 Supercapacitive behavior of electrostatic self-assembly reduced graphene oxide/CoAl-layered	8 10 10 7
197 196 195 194	Friedel oscillations: Decoding the hidden physics. 2016, 17, 302-321 Effect of base-deposited graphene oxide on the thermal stabilization of poly(vinyl chloride). 2016, 65, 125-132 Tight-binding calculation studies of vacancy and adatom defects in graphene. 2016, 28, 115001 Friedel oscillations in graphene-based systems probed by Scanning Tunneling Microscopy. 2016, 17, 294-301 Supercapacitive behavior of electrostatic self-assembly reduced graphene oxide/CoAl-layered double hydroxides nanocomposites. 2016, 669, 146-155	8 10 10 7 40

189	Quasiparticle interference in unconventional 2D systems. 2017 , 29, 103001	13
188	Quasi-free-standing bilayer graphene nanoribbons probed by electronic transport. 2017 , 110, 051601	8
187	Work function of graphene multilayers on SiC(0001). 2017 , 4, 015043	39
186	Synthesis and chemistry of elemental 2D materials. 2017 , 1,	475
185	Impurity scattering and size quantization effects in a single graphene nanoflake. <i>Physical Review B</i> , 2017 , 95,	4
184	Bound states in nanoscale graphene quantum dots in a continuous graphene sheet. <i>Physical Review B</i> , 2017 , 95,	19
183	Anomalous Screening of Quantum Impurities by a Neutral Environment. 2017 , 118, 085302	12
182	Scale-invariant puddles in graphene: Geometric properties of electron-hole distribution at the Dirac point. 2017 , 95, 032112	9
181	Controlled Synthesis of Nitrogen-Doped Graphene on Ruthenium from Azafullerene. 2017 , 17, 2887-2894	22
180	Electrical transport properties of graphene nanowalls grown at low temperature using plasma enhanced chemical vapor deposition. 2017 , 4, 055007	14
179	Electron-Hole Symmetry Breaking in Charge Transport in Nitrogen-Doped Graphene. 2017 , 11, 4641-4650	31
178	Landau quantization of Dirac fermions in graphene and its multilayers. 2017 , 12, 1	35
177	Electrophoretic Deposition of SnFe2O4© raphene Hybrid Films as Anodes for Lithium Ion Batteries. 2017 , 70, 1073	11
176	Energy-Dependent Chirality Effects in Quasifree-Standing Graphene. 2017, 118, 116401	11
175	Direct Probing of the Electronic Structures of Single-Layer and Bilayer Graphene with a Hexagonal Boron Nitride Tunneling Barrier. 2017 , 17, 206-213	14
174	Rapidly annealed nanoporous graphene materials for electrochemical energy storage. 2017 , 5, 23720-23726	11
173	Atomic-scale characterization of the interfacial phonon in graphene/SiC. <i>Physical Review B</i> , 2017 , 96,	13
172	A patterned single layer graphene resistance temperature sensor. 2017 , 7, 8811	75

171	Probing the Nodal Structure of Landau Level Wave Functions in Real Space. 2017 , 118, 016803	3
170	Structure and electronic states of a graphene double vacancy with an embedded Si dopant. 2017 , 147, 194702	6
169	Graphene: Fundamental research and potential applications. 2017, 4, 20-32	86
168	Synthesis and microwave absorption properties of sandwich-type CNTs/Fe3O4/RGO composite with Fe3O4 as a bridge. 2017 , 28, 15043-15049	7
167	Structural Evolution of Flower Defects and Effects on the Electronic Structures of Epitaxial Graphene. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15282-15287	9
166	Magnetization of disclinated graphene in nonuniform magnetic field. 2017 , 31, 1750013	1
165	Synthesis, characterization, and drug release properties of macroporous dual stimuli responsive stereo regular nanocomposites gels of poly(N-isopropylacrylamide) and graphene oxide. 2017 , 24, 389-401	9
164	Isomerization of sp2-hybridized carbon nanomaterials: structural transformation and topological defects of fullerene, carbon nanotube, and graphene. 2017 , 7, e1283	13
163	Symmetry-forbidden intervalley scattering by atomic defects in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2017 , 96,	23
162	Template Assisted Synthesis of Nitrogen doped 3D-Graphene for Supercapacitor Applications. 2017 , 4, 12144-12151	3
161	The graphene/n-Ge(110) interface: structure, doping, and electronic properties. 2018, 10, 6088-6098	21
160	Suppression of Quasiparticle Scattering Signals in Bilayer Graphene Due to Layer Polarization and Destructive Interference. 2018 , 120, 106801	6
159	Liquid-solid surface phase transformation of fluorinated fullerene on monolayer tungsten diselenide. <i>Physical Review B</i> , 2018 , 97,	6
158	Effect of topological defects on mechanical properties of graphene sheets: a molecular dynamics study. 2018 , 5, 6780-6788	4
157	Modulating Electrocatalysis on Graphene Heterostructures: Physically Impermeable Yet Electronically Transparent Electrodes. 2018 , 12, 2980-2990	31
156	Imaging the dynamics of an individual hydrogen atom intercalated between two graphene sheets. Physical Review B, 2018 , 97, 3-3	5
155	Formation of Multilayer Cu Islands Embedded beneath the Surface of Graphite: Characterization and Fundamental Insights. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4454-4469	21
154	Influence of defect locations and nitrogen doping configurations on the mechanical properties of armchair graphene nanoribbons. 2018 , 24, 43	9

153	Surface structure of few layer graphene. Carbon, 2018, 136, 255-261	10.4	33
152	Chemical sensors based on surface charge transfer. 2018 , 3,		4
151	Two-Dimensional Layered Materials as Catalyst Supports. 2018 , 4, 28-40		39
150	Mapping electronic states of triple anti-parallel and symmetric zigzag grain boundaries of graphene on highly oriented pyrolytic graphite. 2018 , 692, 134-139		1
149	Engineering of electronic properties of single layer graphene by swift heavy ion irradiation. 2018 , 123, 161533		22
148	Driving chemical interactions at graphene-germanium van der Waals interfaces via thermal annealing. 2018 , 113, 213103		5
147	Accurate Gap Determination in Monolayer and Bilayer Graphene/ h-BN Moir Superlattices. 2018 , 18, 7732-7741		38
146	Silicene on Ag(111) at Low Temperatures. 2018 , 179-196		
145	Microscopy of hydrogen and hydrogen-vacancy defect structures on graphene devices. <i>Physical Review B</i> , 2018 , 98,	3.3	3
144	Synthesis of popcorn-like Fe2O3/3D graphene sponge composites for excellent microwave absorption properties by a facile method. 2018 , 29, 19443-19453		14
143	Si beam-assisted graphitization of SiC (0001). 2018 , 124, 1		3
142	Selection Rules for Quasiparticle Interference with Internal Nonsymmorphic Symmetries. 2018 , 121, 176401		3
141	Inelastic electron tunneling spectroscopy by STM of phonons at solid surfaces and interfaces. 2018 , 93, 131-145		4
140	Gate-dependent vacancy diffusion in graphene. <i>Physical Review B</i> , 2018 , 98,	3.3	6
139	Evidence of large spin-orbit coupling effects in quasi-free-standing graphene on Pb/Ir(1 1 1). 2018 , 5, 035029		18
138	Epitaxial growth and physical properties of 2D materials beyond graphene: from monatomic materials to binary compounds. 2018 , 47, 6073-6100		63
137	Untreated Natural Graphite as a Graphene Source for High-Performance Li-Ion Batteries. 2018 , 4, 13		17
136	Enhanced n-doping of epitaxial graphene on SiC by bismuth. 2018 , 113, 011602		4

135	Bandgap broadening at grain boundaries in single-layer MoS2. 2018 , 11, 6102-6109		17
134	Scaling properties of monolayer graphene away from the Dirac point. 2018 , 98, 012111		
133	In situ study of nucleation and growth dynamics of Au nanoparticles on MoS nanoflakes. 2018 , 10, 1580)9-158 ⁻	18 8
132	Structure of graphene and its disorders: a review. 2018 , 19, 613-648		196
131	Probing unconventional superconductivity in proximitized graphene by impurity scattering. <i>Physical Review B</i> , 2018 , 97,	3.3	5
130	Transfer-Free Synthesis of Lateral Graphene⊞exagonal Boron Nitride Heterostructures from Chemically Converted Epitaxial Graphene. 2019 , 6, 1900419		7
129	Growth of quadrilateral graphene flakes with a sulfur atomic template on the surface of Ni (110). <i>Carbon</i> , 2019 , 153, 116-119	10.4	2
128	Achieving low noise in scanning tunneling spectroscopy. 2019 , 90, 101401		5
127	Local and global patterns in quasiparticle interference: A reduced response function approach. <i>Physical Review B</i> , 2019 , 100,	3.3	2
126	Effect of structural defects on the strength of adsorption of La and Lu species on graphene. <i>Diamond and Related Materials</i> , 2019 , 100, 107597	3.5	7
125	Ultrathin high-performance electromagnetic wave absorbers with facilely fabricated hierarchical porous Co/C crabapples. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1659-1669	7.1	148
124	Nanocarbons: Preparation, assessments, and applications in structural engineering, spintronics, gas sensing, EMI shielding, and cloaking in X-band. 2019 , 171-285		9
123	Local electronic structure of doping defects on Tl/Si(111)1x1. 2019 , 9, 779		2
122	Probing built-in stress effect on the defect density of stretched monolayer graphene membranes. <i>Carbon</i> , 2019 , 152, 233-240	10.4	7
121	Graphene Grown from Flat and Bowl Shaped Polycyclic Aromatic Hydrocarbons on Cu(111). 2019 , 20, 2354-2359		2
120	Chemical-Vapor-Deposited Graphene as a Thermally Conducting Coating. 2019 , 2, 2621-2633		7
119	Layer-Stacking, Defects, and Robust Superconductivity on the Mo-Terminated Surface of Ultrathin MoC Flakes Grown by CVD. 2019 , 19, 3327-3335		15
118	Mxenes Derived Laminated and Magnetic Composites with Excellent Microwave Absorbing Performance. 2019 , 9, 3957		32

Interaction-disorder-driven characteristic momentum in graphene, approach of multi-body distribution functions. **2019**, 9, 3624

116	Bismuth mediated defect engineering of epitaxial graphene on SiC(0001). <i>Carbon</i> , 2019 , 146, 313-319	10.4	8
115	Intercalation-Mediated Synthesis and Interfacial Coupling Effect Exploration of Unconventional Graphene/PtSe Vertical Heterostructures. 2019 , 11, 48221-48229		3
114	Measuring the Berry phase of graphene from wavefront dislocations in Friedel oscillations. 2019 , 574, 219-222		18
113	Investigations on structure-dependent microwave absorption performance of nano-Fe3O4 coated carbon-based absorbers. <i>Carbon</i> , 2019 , 144, 216-227	10.4	49
112	1D metallic edge states of oxygen-terminated zigzag graphene edges. 2019 , 6, 025038		5
111	The influence of vacancy-induced local strain on the transport properties in armchair and zigzag graphene nanoribbons. 2019 , 6, 045057		О
110	Graphene surface structure in aqueous media: Evidence for an air-bubble layer and ion adsorption. <i>Carbon</i> , 2019 , 143, 97-105	10.4	2
109	Space-confined growth of monolayer ReSe2 under a graphene layer on Au foils. 2019 , 12, 149-157		15
108	Comparison of fracture behavior of defective armchair and zigzag graphene nanoribbons. 2019 , 28, 325	5-345	16
107	High graphene permeability for room temperature silicon deposition: The role of defects. <i>Carbon</i> , 2020 , 158, 631-641	10.4	5
106	Construction of a three-dimensional rGO/CoFe2O4 nanorods composite with enhanced microwave absorption performance. 2020 , 31, 18590-18604		3
105	Freestanding n-Doped Graphene via Intercalation of Calcium and Magnesium into the Buffer LayerBiC(0001) Interface. 2020 , 32, 6464-6482		10
104	Importance of interactions for the band structure of the topological Dirac semimetal Na3Bi. <i>Physical Review B</i> , 2020 , 102,	3.3	1
103	The 100´mm 🛮 00´mm Extreme Ultraviolet Graphite Pellicle: Nano-Pellicle Production Using the Lowest Free Energy at the Graphite Water Interface. 2020 , 7, 2001141		1
102	Quantum-confinement-induced periodic surface states in two-dimensional metal-organic frameworks. 2020 , 117, 191601		O
101	High density synthesis of topological point defects in graphene on 6HBiC(0001[). <i>Carbon</i> , 2020 , 170, 174-181	10.4	5
100	Local Berry Phase Signatures of Bilayer Graphene in Intervalley Quantum Interference. 2020 , 125, 1168	04	8

99	Hydrogen-Intercalated Graphene on SiC as Platform for Hybrid Superconductor Devices. 2020, 3, 2000082	1
98	Engineering electronic thermal conductivity of hydrogenated bilayer boronitrene via impurity infection: Tight-binding theory. 2020 , 700, 121677	1
97	Structure and electronic properties of closed-ring defects in epitaxial graphene. 2020, 7, 055602	3
96	Understanding and Predicting the Cause of Defects in Graphene Oxide Nanostructures Using Machine Learning. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7404-7413	20
95	The Chemistry and Promising Applications of Graphene and Porous Graphene Materials. 2020 , 30, 1909035	79
94	Strain Modulated Superlattices in Graphene. 2020 , 20, 3113-3121	21
93	Structural and magnetic properties of a defective graphene buffer layer grown on SiC(0001): a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 16096-16106	6
92	The potentially crucial role of quasi-particle interferences for the growth of silicene on graphite. 2020 , 13, 2378-2383	2
91	Dictionary learning in Fourier-transform scanning tunneling spectroscopy. 2020 , 11, 1081	4
90	Weak localization in graphene sandwiched by aligned h-BN flakes. 2020 , 31, 215712	2
89	Interlayer Decoupling in 30° Twisted Bilayer Graphene Quasicrystal. 2020 , 14, 1656-1664	31
88	Atomistic T-matrix theory of disordered two-dimensional materials: Bound states, spectral properties, quasiparticle scattering, and transport. <i>Physical Review B</i> , 2020 , 101,	7
87	Determination of the trigonal warping orientation in Bernal-stacked bilayer graphene via scanning tunneling microscopy. <i>Physical Review B</i> , 2020 , 101,	9
86	Step-flow growth of graphene-boron nitride lateral heterostructures by molecular beam epitaxy. 2020 , 7, 035014	6
85	Traction-separation laws of graphene grain boundaries. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 14284-14295	1
84	Two-Dimensional Carbon Allotropes and Nanoribbons based on 2,6-Polyazulene Chains: Stacking Stabilities and Electronic Properties. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 732-738	19
83	Encapsulation of metal nanoparticles at the surface of a prototypical layered material. 2021, 13, 1485-1506	4
82	Electromagnetic Wave Absorption Polymer Nanocomposites. 2021,	

81 Scanning tunneling microscopy (STM) of graphene. **2021**, 345-379

8o	Progress in Epitaxial Thin-Film Na Bi as a Topological Electronic Material. <i>Advanced Materials</i> , 2021 , 33, e2005897	24	10
79	Topological-Defect-Induced Superstructures on Graphite Surface. 2021 , 38, 027201		2
78	Quantum Interferences of Pseudospin-Mediated Atomic-Scale Vortices in Monolayer Graphene. 2021 , 21, 2526-2531		1
77	Substrate dopant induced electronic inhomogeneity in epitaxial bilayer graphene. 2021, 8, 035001		1
76	Elucidating the electronic and magnetic properties of epitaxial graphene grown on SiC with a defective buffer layer. 2021 , 56, 11386-11401		1
75	Origin of the band gap in Bi-intercalated graphene on Ir(111). 2021, 8, 035007		
74	Valley-protected one-dimensional states in small-angle twisted bilayer graphene. <i>Physical Review B</i> , 2021 , 103,	3.3	1
73	Robust wavefront dislocations of Friedel oscillations in gapped graphene. <i>Physical Review B</i> , 2021 , 103,	3.3	O
72	Scanning probe microscopy. 2021 , 1,		31
71	Anomalous thermopower oscillations in graphene-nanowire vertical heterostructures. 2021, 32,		1
70	Photoluminescence Enhancement Exceeding 10-Fold from Graphene via an Additional Layer: Photoluminescence from Monolayer and Bilayer Graphene Epitaxially Grown on SiC. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 11014-11022	3.8	2
69	Measuring and Tuning the Potential Landscape of Electrostatically Defined Quantum Dots in Graphene. 2021 , 21, 5013-5020		1
68	The role of charge distribution on the friction coefficients of epitaxial graphene grown on the Si-terminated and C-terminated faces of SiC. <i>Carbon</i> , 2021 , 178, 125-132	10.4	
67	Friedel oscillations in graphene gapped by breaking P and T symmetries: Topological and geometrical signatures of electronic structure. <i>Physical Review B</i> , 2021 , 104,	3.3	О
66	Characteristic study of exfoliated graphene particles from waste batteries. 1		
65	Direct Visualization of Native Defects in Graphite and Their Effect on the Electronic Properties of Bernal-Stacked Bilayer Graphene. 2021 , 21, 7100-7108		2
64	Measuring graphene∄ Berry phase at B=0 T. 2021 , 22, 1-11		

63	Direct Observation of Global Elastic Intervalley Scattering Induced by Impurities on Graphene. 2021 , 21, 8258-8265		3
62	Distortion and bonding strength of phthalocyanine molecules adsorbed on topological defects in graphene. 2021 , 271, 124963		3
61	Compressive thermal stress and microstructure-driven charge carrier transport in silicon oxycarbide thin films. 2021 , 41, 6377-6384		2
60	Reduced graphene oxide-epoxidized linseed oil nanocomposite: A highly efficient bio-based anti-corrosion coating material for mild steel. 2021 , 159, 106399		2
59	Combined experimental and theoretical studies on enlarged bandgap and improved photoelectrochemical properties of reduced graphene oxide film by hydrogen annealing. 2021 , 900, 115722		1
58	Fabrication and mechanism of Pb-intercalated graphene on SiC. Applied Surface Science, 2021, 569, 151	0627	O
57	Atomic-Scale Contrast Formation in AFM Images on Molecular Systems. 2015 , 173-194		3
56	First-Principles Study of the Electronic and Magnetic Properties of Defects in Carbon Nanostructures. <i>Carbon Materials</i> , 2013 , 41-76		1
55	Probing divacancy defects in a zigzag graphene nanoribbon through an RKKY exchange interaction. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 095302	3	1
54	Electronic properties of chemically doped graphene. Physical Review Materials, 2019, 3,	3.2	20
54	Electronic properties of chemically doped graphene. <i>Physical Review Materials</i> , 2019 , 3, Electronic Control of Single-Molecule Nanomachines. 2010 ,	3.2	20
		0.7	
53	Electronic Control of Single-Molecule Nanomachines. 2010 , Graphene Epitaxially Grown on Vicinal 4H-SiC(0001) Substrates. <i>E-Journal of Surface Science and</i>		0
53 52	Electronic Control of Single-Molecule Nanomachines. 2010 , Graphene Epitaxially Grown on Vicinal 4H-SiC(0001) Substrates. <i>E-Journal of Surface Science and Nanotechnology</i> , 2009 , 7, 29-34 Graphene Systems: Methods of Fabrication and Treatment, Structure Formation, and Functional	0.7	0 3
53 52 51	Electronic Control of Single-Molecule Nanomachines. 2010, Graphene Epitaxially Grown on Vicinal 4H-SiC(0001) Substrates. E-Journal of Surface Science and Nanotechnology, 2009, 7, 29-34 Graphene Systems: Methods of Fabrication and Treatment, Structure Formation, and Functional Properties. Progress in Physics of Metals, 2010, 11, 95-138 Stone-Wales kusuru iBrisindeki farklibligelere azot atomu katklindemania grafenin mekanik	0.7	0 3 11
53 52 51 50	Electronic Control of Single-Molecule Nanomachines. 2010, Graphene Epitaxially Grown on Vicinal 4H-SiC(0001) Substrates. E-Journal of Surface Science and Nanotechnology, 2009, 7, 29-34 Graphene Systems: Methods of Fabrication and Treatment, Structure Formation, and Functional Properties. Progress in Physics of Metals, 2010, 11, 95-138 Stone-Wales kusuru i\(\text{Brisindeki farkl}\) Epelere azot atomu katk\(\text{BndEmanB}\) grafenin mekanik\(\text{Bellikleri \(\text{Berine}\) etine etkisi. 2018, 2018,	0.7	0 3 11 1
53 52 51 50 49	Electronic Control of Single-Molecule Nanomachines. 2010, Graphene Epitaxially Grown on Vicinal 4H-SiC(0001) Substrates. E-Journal of Surface Science and Nanotechnology, 2009, 7, 29-34 Graphene Systems: Methods of Fabrication and Treatment, Structure Formation, and Functional Properties. Progress in Physics of Metals, 2010, 11, 95-138 Stone-Wales kusuru i\(\text{Brisindeki}\) farkl\(\text{Bolgelere}\) azot atomu katk\(Band\(\text{Band\(\	0.7	o 3 11 1 3

45	Construction, physical properties and applications of low-dimensional atomic/molecular crystals. Wuli Xuebao/Acta Physica Sinica, 2018 , 67, 126801	0.6	3
44	Synthesis of Graphene on Ni/SiO2/Si Substrate by Inductively-Coupled Plasma-Enhanced Chemical Vapor Deposition. <i>Korean Journal of Materials Research</i> , 2009 , 19, 522-526	0.2	3
43	Long-term dynamic stability of discrete dislocations in graphene at finite temperature. 2010 , 215-223		
42	Epitaxial Graphene: A New Material. 453-472		
41	References. 177-198		
40	Graphene Formation on Ni/SiO2/Si Substrate Using Carbon Atoms Activated by Inductively-Coupled Plasma Chemical Vapor Deposition. <i>Korean Journal of Materials Research</i> , 2013 , 23, 47-52	0.2	1
39	Effect of Microwave Irradiation on Exfoliation of Graphene Oxide. <i>Korean Journal of Materials Research</i> , 2013 , 23, 708-713	0.2	
38	Wଷିପିiwoପିi grafenu 2016 ,		
37	Bondons on Graphenic Nanoribbons with Topological Defects. 2016 , 1-77		
36	Fabrication and electrical engineering of graphene nanoribbons. Wuli Xuebao/Acta Physica Sinica, 2017 , 66, 218103	0.6	4
35	STM Study of Twisted Bilayer Graphene. Springer Theses, 2018, 37-54	0.1	
34	Strain control in graphene on GaN nanowires: Towards pseudomagnetic field engineering. <i>Carbon</i> , 2022 , 186, 128-140	10.4	
33	Two-Dimensional Crystals: Graphene, Silicene, Germanene, and Stanene. Springer Handbooks, 2020 , 243	3- 2. 66	
32	Dirac Fermions in Graphene with Stacking Fault Induced Periodic Line Defects. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10874-10879	6.4	1
31	High-Throughput Screening of Two-Dimensional Planar sp Carbon Space Associated with a Labeled Quotient Graph. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11511-11519	6.4	4
30	Epitaxial Growth of Uniform Single-Layer and Bilayer Graphene with Assistance of Nitrogen Plasma <i>Nanomaterials</i> , 2021 , 11,	5.4	O
29	Molecular dynamics modeling and simulation of water desalination through a double-walled carbon nanotube with moir[pattern. <i>Journal of Micromechanics and Molecular Physics</i> , 1-9	1.4	0
28	(DSF)n-graphene: Carbon semimetal with double stacking faults. <i>Journal of Materials Chemistry C</i> ,	7.1	

27	Functionalization and exfoliation of graphite with low temperature pulse plasma in distilled water <i>Physical Chemistry Chemical Physics</i> , 2022 ,	3.6	1
26	Effect of chirality and defects on tensile behavior of carbon nanotubes and graphene: Insights from molecular dynamics. <i>Diamond and Related Materials</i> , 2022 , 121, 108769	3.5	O
25	Detecting the non-magnetism and magnetism switching of point defects in graphene at the atomic scale. <i>Applied Surface Science</i> , 2022 , 152652	6.7	0
24	Quantum sensing of thermoelectric power in low-dimensional materials. <i>Advanced Materials</i> , 2021 , e21	0 <u>6</u> 871	O
23	Theoretical studies on optical absorption in twisted bilayer graphene under vertical electric field. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 054203	0.6	
22	Highly Asymmetric Graphene Layer Doping and Band Structure Manipulation in Rare Earth © raphene Heterostructure by Targeted Bonding of the Intercalated Gadolinium. <i>Journal of Physical Chemistry C</i> ,	3.8	1
21	Atomic Simulations of (8,0)CNT-Graphene by SCC-DFTB Algorithm Nanomaterials, 2022, 12,	5.4	3
20	Magnetic field dependent two-photon absorption properties in monolayer MoS2. <i>Physical Review B</i> , 2022 , 105,	3.3	1
19	Ubiquitous defect-induced density wave instability in monolayer graphene. <i>Science Advances</i> , 2022 , 8,	14.3	3
18	Graphite and Graphene Nanoplatelets (GNP) Filled Polymer Matrix Nanocomposites. 2022, 1-45		
17	Band Folding and Interlayer Band Filling of Graphene upon Interface Potassium Intercalation. 2200585		1
16	Two-Way Twisting of a Confined Monolayer: Orientational Ordering within the van der Waals Gap between Graphene and Its Crystalline Substrate. 2022 , 129,		
15	Helical Nanographenes: Synthetic and Chiroptical Achievements. 2022, 283-328		2
14	Characterization and Manipulation of Intervalley Scattering Induced by an Individual Monovacancy in Graphene. 2022 , 129,		1
13	Synthesis of nanomaterials using top-down methods. 2022 , 37-60		0
12	Dislocation dipole movement in graphene at finite temperatures: Molecular dynamics study. 2022,		О
11	Two-dimensional carbon materials with an anisotropic Dirac cone: high stability and tunable Fermi velocity. 2022 , 24, 19263-19268		0
10	Spin-polarized and possible pseudospin-polarized scanning tunneling microscopy in kagome metal FeSn. 2022 , 5,		Ο

9	Suppression of Intervalley Coupling in Graphene via Potassium Doping. 9396-9403	О
8	Atomistic Simulations of Defects Production under Ion Irradiation in Epitaxial Graphene on SiC. 2200292	O
7	Impact analysis of vacancy defects on Analog/RF performance parameters of GNR FET. 2022, 171, 207428	O
6	Recent Advances in Graphene Epitaxial Growth: Aspects of Substrate Surface Modification Using Coatings. 2022 , 12, 1828	O
5	Structural identification of graphene films and nanoislands on 6H-SiC(0001) by direct height measurement.	O
4	Long-range adsorbate interactions mediated by two-dimensional Dirac fermions.	O
3	Imaging Friedel oscillations in rhombohedral trilayer graphene. 2023, 107,	O
2	Lateral Heterostructures of Graphene and h-BN with Atomic Lattice Coherence and Tunable Rotational Order. 2207217	O
1	Observation of Robust and Long-Ranged Superperiodicity of Electronic Density Induced by Intervalley Scattering in Graphene/Transition Metal Dichalcogenide Heterostructures. 2023 , 23, 2630-2635	0