

Boris I Yakobson

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387
papers

40,307
citations

101
h-index

194
g-index

415
ext. papers

45,629
ext. citations

10.8
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7.74
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 387 | Nanomechanics of carbon tubes: Instabilities beyond linear response. <i>Physical Review Letters</i> , 1996 , 76, 2511-2514 | 7.4 | 2251 |
| 386 | Large scale growth and characterization of atomic hexagonal boron nitride layers. <i>Nano Letters</i> , 2010 , 10, 3209-15 | 11.5 | 1961 |
| 385 | Vertical and in-plane heterostructures from WS ₂ /MoS ₂ monolayers. <i>Nature Materials</i> , 2014 , 13, 1135-4227 | | 1580 |
| 384 | Intrinsic structural defects in monolayer molybdenum disulfide. <i>Nano Letters</i> , 2013 , 13, 2615-22 | 11.5 | 1418 |
| 383 | Vapour phase growth and grain boundary structure of molybdenum disulphide atomic layers. <i>Nature Materials</i> , 2013 , 12, 754-9 | 27 | 1384 |
| 382 | Laser-induced porous graphene films from commercial polymers. <i>Nature Communications</i> , 2014 , 5, 5714 | 17.4 | 1020 |
| 381 | The role of surface oxygen in the growth of large single-crystal graphene on copper. <i>Science</i> , 2013 , 342, 720-3 | 33.3 | 868 |
| 380 | C2F, BN, and C nanoshell elasticity from ab initio computations. <i>Physical Review B</i> , 2001 , 64, | 3.3 | 829 |
| 379 | A library of atomically thin metal chalcogenides. <i>Nature</i> , 2018 , 556, 355-359 | 50.4 | 812 |
| 378 | Quasiparticle band structures and optical properties of strained monolayer MoS ₂ and WS ₂ . <i>Physical Review B</i> , 2013 , 87, | 3.3 | 662 |
| 377 | A review on mechanics and mechanical properties of 2D materials Graphene and beyond. <i>Extreme Mechanics Letters</i> , 2017 , 13, 42-77 | 3.9 | 581 |
| 376 | Achieving Highly Efficient, Selective, and Stable CO ₂ Reduction on Nitrogen-Doped Carbon Nanotubes. <i>ACS Nano</i> , 2015 , 9, 5364-71 | 16.7 | 451 |
| 375 | Polymorphism of two-dimensional boron. <i>Nano Letters</i> , 2012 , 12, 2441-5 | 11.5 | 435 |
| 374 | Brittle and Ductile Behavior in Carbon Nanotubes. <i>Physical Review Letters</i> , 1998 , 81, 4656-4659 | 7.4 | 431 |
| 373 | Controlled nanocutting of graphene. <i>Nano Research</i> , 2008 , 1, 116-122 | 10 | 424 |
| 372 | High strain rate fracture and C-chain unraveling in carbon nanotubes. <i>Computational Materials Science</i> , 1997 , 8, 341-348 | 3.2 | 417 |
| 371 | Mechanism of strain release in carbon nanotubes. <i>Physical Review B</i> , 1998 , 57, R4277-R4280 | 3.3 | 403 |

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| 370 | B80 fullerene: an Ab initio prediction of geometry, stability, and electronic structure. <i>Physical Review Letters</i> , 2007 , 98, 166804 | 7.4 | 373 |
| 369 | Strain and structure heterogeneity in MoS ₂ atomic layers grown by chemical vapour deposition. <i>Nature Communications</i> , 2014 , 5, 5246 | 17.4 | 352 |
| 368 | Incorporation of Nitrogen Defects for Efficient Reduction of CO ₂ via Two-Electron Pathway on Three-Dimensional Graphene Foam. <i>Nano Letters</i> , 2016 , 16, 466-70 | 11.5 | 351 |
| 367 | Carbon nanotube-enhanced thermal destruction of cancer cells in a noninvasive radiofrequency field. <i>Cancer</i> , 2007 , 110, 2654-65 | 6.4 | 334 |
| 366 | Nonlocal shell model for elastic wave propagation in single- and double-walled carbon nanotubes. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 3475-3485 | 5 | 333 |
| 365 | Controlled Sliding and Pullout of Nested Shells in Individual Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8764-8767 | 3.4 | 329 |
| 364 | Single-Atomic Ruthenium Catalytic Sites on Nitrogen-Doped Graphene for Oxygen Reduction Reaction in Acidic Medium. <i>ACS Nano</i> , 2017 , 11, 6930-6941 | 16.7 | 327 |
| 363 | Mechanical Properties of Carbon Nanotubes 2001 , 287-327 | | 316 |
| 362 | Nitrogen-Doped Carbon Nanotube Arrays for High-Efficiency Electrochemical Reduction of CO ₂ : On the Understanding of Defects, Defect Density, and Selectivity. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13701-5 | 16.4 | 315 |
| 361 | Carbyne from first principles: chain of C atoms, a nanorod or a nanorope. <i>ACS Nano</i> , 2013 , 7, 10075-82 | 16.7 | 304 |
| 360 | Mechanical relaxation and intramolecular plasticity in carbon nanotubes. <i>Applied Physics Letters</i> , 1998 , 72, 918-920 | 3.4 | 289 |
| 359 | Cones, pringles, and grain boundary landscapes in graphene topology. <i>Nano Letters</i> , 2010 , 10, 2178-83 | 11.5 | 287 |
| 358 | Can Two-Dimensional Boron Superconduct?. <i>Nano Letters</i> , 2016 , 16, 2522-6 | 11.5 | 281 |
| 357 | Electrochemical CO ₂ Reduction with Atomic Iron-Dispersed on Nitrogen-Doped Graphene. <i>Advanced Energy Materials</i> , 2018 , 8, 1703487 | 21.8 | 277 |
| 356 | Graphene nucleation on transition metal surface: structure transformation and role of the metal step edge. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5009-15 | 16.4 | 273 |
| 355 | Predicting dislocations and grain boundaries in two-dimensional metal-disulfides from the first principles. <i>Nano Letters</i> , 2013 , 13, 253-8 | 11.5 | 270 |
| 354 | Dislocation theory of chirality-controlled nanotube growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2506-9 | 11.5 | 265 |
| 353 | BN white graphene with "colorful" edges: the energies and morphology. <i>Nano Letters</i> , 2011 , 11, 3113-6 | 11.5 | 261 |

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| 352 | High-Performance Hydrogen Evolution from MoS ₂ (1-x)P(x) Solid Solution. <i>Advanced Materials</i> , 2016 , 28, 1427-32 | 24 | 260 |
| 351 | Feasibility of Lithium Storage on Graphene and Its Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1737-42 | 6.4 | 253 |
| 350 | Self-optimizing, highly surface-active layered metal dichalcogenide catalysts for hydrogen evolution. <i>Nature Energy</i> , 2017 , 2, | 62.3 | 240 |
| 349 | Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018 , 12, 11756-11784 | 16.7 | 239 |
| 348 | Borophene as a prototype for synthetic 2D materials development. <i>Nature Nanotechnology</i> , 2018 , 13, 444-450 | 28.7 | 237 |
| 347 | Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. <i>Nature Nanotechnology</i> , 2016 , 11, 426-31 | 28.7 | 227 |
| 346 | Electronics and magnetism of patterned graphene nanoroads. <i>Nano Letters</i> , 2009 , 9, 1540-3 | 11.5 | 223 |
| 345 | Two-Dimensional Boron Monolayers Mediated by Metal Substrates. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13022-6 | 16.4 | 221 |
| 344 | Probing the synthesis of two-dimensional boron by first-principles computations. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3156-9 | 16.4 | 212 |
| 343 | Fullerene nanocage capacity for hydrogen storage. <i>Nano Letters</i> , 2008 , 8, 767-74 | 11.5 | 211 |
| 342 | Two-dimensional boron: structures, properties and applications. <i>Chemical Society Reviews</i> , 2017 , 46, 6746-6763 | 46.3 | 209 |
| 341 | Wafer-scale single-crystal hexagonal boron nitride monolayers on Cu(111). <i>Nature</i> , 2020 , 579, 219-223 | 50.4 | 209 |
| 340 | Symmetry-, time-, and temperature-dependent strength of carbon nanotubes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 6105-9 | 11.5 | 208 |
| 339 | Boron- and Nitrogen-Substituted Graphene Nanoribbons as Efficient Catalysts for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2015 , 27, 1181-1186 | 9.6 | 202 |
| 338 | Gram-scale bottom-up flash graphene synthesis. <i>Nature</i> , 2020 , 577, 647-651 | 50.4 | 201 |
| 337 | Equilibrium at the edge and atomistic mechanisms of graphene growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15136-40 | 11.5 | 200 |
| 336 | Role of hydrogen in graphene chemical vapor deposition growth on a copper surface. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3040-7 | 16.4 | 193 |
| 335 | Dislocations and grain boundaries in two-dimensional boron nitride. <i>ACS Nano</i> , 2012 , 6, 7053-8 | 16.7 | 189 |

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| 334 | Intrinsic magnetism of grain boundaries in two-dimensional metal dichalcogenides. <i>ACS Nano</i> , 2013 , 7, 10475-81 | 16.7 | 186 |
| 333 | In situ observation of graphene sublimation and multi-layer edge reconstructions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 10103-8 | 11.5 | 186 |
| 332 | Curvature-induced polarization in carbon nanoshells. <i>Chemical Physics Letters</i> , 2002 , 360, 182-188 | 2.5 | 177 |
| 331 | Elasticity, Flexibility, and Ideal Strength of Borophenes. <i>Advanced Functional Materials</i> , 2017 , 27, 1605056 | 15.6 | 176 |
| 330 | In situ evidence for chirality-dependent growth rates of individual carbon nanotubes. <i>Nature Materials</i> , 2012 , 11, 213-6 | 27 | 174 |
| 329 | Ripping graphene: preferred directions. <i>Nano Letters</i> , 2012 , 12, 293-7 | 11.5 | 172 |
| 328 | Two-dimensional mono-elemental semiconductor with electronically inactive defects: the case of phosphorus. <i>Nano Letters</i> , 2014 , 14, 6782-6 | 11.5 | 170 |
| 327 | Direct chemical conversion of graphene to boron- and nitrogen- and carbon-containing atomic layers. <i>Nature Communications</i> , 2014 , 5, 3193 | 17.4 | 169 |
| 326 | Ballistic thermal conductance of graphene ribbons. <i>Nano Letters</i> , 2010 , 10, 1652-6 | 11.5 | 169 |
| 325 | Dislocation motion and grain boundary migration in two-dimensional tungsten disulphide. <i>Nature Communications</i> , 2014 , 5, 4867 | 17.4 | 167 |
| 324 | Electro-mechanical anisotropy of phosphorene. <i>Nanoscale</i> , 2015 , 7, 9746-51 | 7.7 | 157 |
| 323 | Two-dimensional tetragonal TiC monolayer sheet and nanoribbons. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19326-9 | 16.4 | 154 |
| 322 | Pseudo Hall-Petch strength reduction in polycrystalline graphene. <i>Nano Letters</i> , 2013 , 13, 1829-33 | 11.5 | 154 |
| 321 | Evolutionary selection growth of two-dimensional materials on polycrystalline substrates. <i>Nature Materials</i> , 2018 , 17, 318-322 | 27 | 151 |
| 320 | Graphene edge from armchair to zigzag: the origins of nanotube chirality?. <i>Physical Review Letters</i> , 2010 , 105, 235502 | 7.4 | 151 |
| 319 | Spontaneous twist and intrinsic instabilities of pristine graphene nanoribbons. <i>Nano Research</i> , 2009 , 2, 161-166 | 10 | 147 |
| 318 | Photoluminescence quenching and charge transfer in artificial heterostacks of monolayer transition metal dichalcogenides and few-layer black phosphorus. <i>ACS Nano</i> , 2015 , 9, 555-63 | 16.7 | 145 |
| 317 | Hydrogen storage by spillover on graphene as a phase nucleation process. <i>Physical Review B</i> , 2008 , 78, | 3.3 | 143 |

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| 316 | Predicting Two-Dimensional Silicon Carbide Monolayers. <i>ACS Nano</i> , 2015 , 9, 9802-9 | 16.7 | 141 |
| 315 | The future of the fullerenes. <i>Solid State Communications</i> , 1998 , 107, 597-606 | 1.6 | 140 |
| 314 | Clustering of Sc on SWNT and Reduction of Hydrogen Uptake: Ab-Initio All-Electron Calculations. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17977-17980 | 3.8 | 139 |
| 313 | Substrate-Induced Nanoscale Undulations of Borophene on Silver. <i>Nano Letters</i> , 2016 , 16, 6622-6627 | 11.5 | 136 |
| 312 | Borophene Synthesis on Au(111). <i>ACS Nano</i> , 2019 , 13, 3816-3822 | 16.7 | 134 |
| 311 | Why nanotubes grow chiral. <i>Nature Communications</i> , 2014 , 5, 4892 | 17.4 | 128 |
| 310 | Quantum Dots and Nanoroads of Graphene Embedded in Hexagonal Boron Nitride. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9889-9893 | 3.8 | 127 |
| 309 | Probing properties of boron alpha-tubes by Ab Initio calculations. <i>Nano Letters</i> , 2008 , 8, 1314-7 | 11.5 | 126 |
| 308 | Quaternary 2D Transition Metal Dichalcogenides (TMDs) with Tunable Bandgap. <i>Advanced Materials</i> , 2017 , 29, 1702457 | 24 | 124 |
| 307 | Mechanically induced defects and strength of BN nanotubes. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 124 |
| 306 | Two-dimensional materials: Polyphony in B flat. <i>Nature Chemistry</i> , 2016 , 8, 525-7 | 17.6 | 122 |
| 305 | Consistent methodology for calculating surface and interface energies. <i>Physical Review B</i> , 1998 , 57, 7281-7291 | 3.3 | 121 |
| 304 | Nanomechanical cleavage of molybdenum disulphide atomic layers. <i>Nature Communications</i> , 2014 , 5, 3631 | 17.4 | 118 |
| 303 | Phase diagram of quasi-two-dimensional carbon, from graphene to diamond. <i>Nano Letters</i> , 2014 , 14, 676-81 | 11.5 | 115 |
| 302 | H-Spillover through the Catalyst Saturation: An Ab Initio Thermodynamics Study. <i>ACS Nano</i> , 2009 , 3, 1657-662 | 16.7 | 115 |
| 301 | Atomic H-Induced MoC Hybrid as an Active and Stable Bifunctional Electrocatalyst. <i>ACS Nano</i> , 2017 , 11, 384-394 | 16.7 | 114 |
| 300 | Vacancy clusters in graphane as quantum dots. <i>ACS Nano</i> , 2010 , 4, 3510-4 | 16.7 | 114 |
| 299 | Strong ferromagnetism in hydrogenated monolayer MoS ₂ tuned by strain. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 113 |

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| 298 | Pseudoclimb and dislocation dynamics in superplastic nanotubes. <i>Physical Review Letters</i> , 2007 , 98, 075503 | 16.4 | 113 |
| 297 | Highly Itinerant Atomic Vacancies in Phosphorene. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10199-206 | 16.4 | 112 |
| 296 | Scratching the surface of buckminsterfullerene: the barriers for Stone-Wales transformation through symmetric and asymmetric transition states. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5572-80 | 16.4 | 112 |
| 295 | Two-Dimensional SiS Layers with Promising Electronic and Optoelectronic Properties: Theoretical Prediction. <i>Nano Letters</i> , 2016 , 16, 1110-7 | 11.5 | 110 |
| 294 | Tailoring the physical properties of molybdenum disulfide monolayers by control of interfacial chemistry. <i>Nano Letters</i> , 2014 , 14, 1354-61 | 11.5 | 110 |
| 293 | Patterning nanoroads and quantum dots on fluorinated graphene. <i>Nano Research</i> , 2011 , 4, 143-152 | 10 | 109 |
| 292 | What is the ground-state structure of the thinnest Si nanowires?. <i>Physical Review Letters</i> , 2003 , 91, 035501 | 10.4 | 106 |
| 291 | Type-II Multiferroic HfVCF MXene Monolayer with High Transition Temperature. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9768-9773 | 16.4 | 105 |
| 290 | Mechanically induced metal-insulator transition in carbyne. <i>Nano Letters</i> , 2014 , 14, 4224-9 | 11.5 | 105 |
| 289 | Electronic transport through bent carbon nanotubes: Nanoelectromechanical sensors and switches. <i>Physical Review B</i> , 2003 , 67, | 3.3 | 103 |
| 288 | Bond-breaking bifurcation states in carbon nanotube fracture. <i>Journal of Chemical Physics</i> , 2003 , 118, 9485-9488 | 3.9 | 101 |
| 287 | Strain-Induced Electronic Structure Changes in Stacked van der Waals Heterostructures. <i>Nano Letters</i> , 2016 , 16, 3314-20 | 11.5 | 101 |
| 286 | Grain Boundary Structures and Electronic Properties of Hexagonal Boron Nitride on Cu(111). <i>Nano Letters</i> , 2015 , 15, 5804-10 | 11.5 | 100 |
| 285 | An open canvas--2D materials with defects, disorder, and functionality. <i>Accounts of Chemical Research</i> , 2015 , 48, 73-80 | 24.3 | 99 |
| 284 | Kinetic theory of symmetry-dependent strength in carbon nanotubes. <i>Physical Review Letters</i> , 2002 , 88, 065501 | 7.4 | 98 |
| 283 | Growth Mechanism and Morphology of Hexagonal Boron Nitride. <i>Nano Letters</i> , 2016 , 16, 1398-403 | 11.5 | 97 |
| 282 | Observational geology of graphene, at the nanoscale. <i>ACS Nano</i> , 2011 , 5, 1569-74 | 16.7 | 96 |
| 281 | Engineering electronic properties of layered transition-metal dichalcogenide compounds through alloying. <i>Nanoscale</i> , 2014 , 6, 5820-5 | 7.7 | 95 |

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|-----|--|------|----|
| 280 | Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015 , 27, 7800-8 | 24 | 94 |
| 279 | Thickness-dependent patterning of MoS ₂ sheets with well-oriented triangular pits by heating in air. <i>Nano Research</i> , 2013 , 6, 703-711 | 10 | 92 |
| 278 | How Nitrogen-Doped Graphene Quantum Dots Catalyze Electroreduction of CO ₂ to Hydrocarbons and Oxygenates. <i>ACS Catalysis</i> , 2017 , 7, 6245-6250 | 13.1 | 91 |
| 277 | How evaporating carbon nanotubes retain their perfection?. <i>Nano Letters</i> , 2007 , 7, 681-4 | 11.5 | 91 |
| 276 | Intermixing and periodic self-assembly of borophene line defects. <i>Nature Materials</i> , 2018 , 17, 783-788 | 27 | 90 |
| 275 | Efficient defect healing in catalytic carbon nanotube growth. <i>Physical Review Letters</i> , 2012 , 108, 245505 | 7.4 | 89 |
| 274 | Atomistic theory of mechanical relaxation in fullerene nanotubes. <i>Carbon</i> , 2000 , 38, 1675-1680 | 10.4 | 86 |
| 273 | Calcium-decorated carbyne networks as hydrogen storage media. <i>Nano Letters</i> , 2011 , 11, 2660-5 | 11.5 | 85 |
| 272 | High Performance Electrocatalytic Reaction of Hydrogen and Oxygen on Ruthenium Nanoclusters. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3785-3791 | 9.5 | 84 |
| 271 | Self-gating in semiconductor electrocatalysis. <i>Nature Materials</i> , 2019 , 18, 1098-1104 | 27 | 84 |
| 270 | Dynamic topology of fullerene coalescence. <i>Physical Review Letters</i> , 2002 , 88, 185501 | 7.4 | 84 |
| 269 | Two-Dimensional Boron Polymorphs for Visible Range Plasmonics: A First-Principles Exploration. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17181-17185 | 16.4 | 83 |
| 268 | Strong interfacial coupling of MoS ₂ /g-C ₃ N ₄ van de Waals solids for highly active water reduction. <i>Nano Energy</i> , 2016 , 27, 44-50 | 17.1 | 81 |
| 267 | Endohedral silicon nanotubes as thinnest silicide wires. <i>Physical Review B</i> , 2004 , 70, | 3.3 | 81 |
| 266 | Nitrogen-Doped Carbon Nanotube Arrays for High-Efficiency Electrochemical Reduction of CO ₂ : On the Understanding of Defects, Defect Density, and Selectivity. <i>Angewandte Chemie</i> , 2015 , 127, 13905-13909 | 3.6 | 78 |
| 265 | Interface toughness of carbon nanotube reinforced epoxy composites. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 129-34 | 9.5 | 78 |
| 264 | How Graphene Islands Are Unidirectionally Aligned on the Ge(110) Surface. <i>Nano Letters</i> , 2016 , 16, 3160-5 | 11.5 | 78 |
| 263 | Oral vaccination of wildlife using a vaccinia-rabies-glycoprotein recombinant virus vaccine (RABORAL V-RG): a global review. <i>Veterinary Research</i> , 2017 , 48, 57 | 3.8 | 74 |

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| 262 | Real time microscopy, kinetics, and mechanism of giant fullerene evaporation. <i>Physical Review Letters</i> , 2007 , 99, 175503 | 7.4 | 73 |
| 261 | First-Principles Studies of Li Nucleation on Graphene. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 12256-12264 | 6.4 | 72 |
| 260 | Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. <i>Nature Communications</i> , 2020 , 11, 57 | 17.4 | 72 |
| 259 | Assessing carbon-based anodes for lithium-ion batteries: a universal description of charge-transfer binding. <i>Physical Review Letters</i> , 2014 , 113, 028304 | 7.4 | 71 |
| 258 | Two-Dimensional Boron Monolayers Mediated by Metal Substrates. <i>Angewandte Chemie</i> , 2015 , 127, 13214-13218 | 13.6 | 71 |
| 257 | Many-body and spin-orbit effects on direct-indirect band gap transition of strained monolayer MoS ₂ and WS ₂ . <i>Annalen Der Physik</i> , 2014 , 526, L7-L12 | 2.6 | 70 |
| 256 | An atomistic and non-classical continuum field theoretic perspective of elastic interactions between defects (force dipoles) of various symmetries and application to graphene. <i>Journal of the Mechanics and Physics of Solids</i> , 2006 , 54, 2304-2329 | 5 | 68 |
| 255 | Riemann Surfaces of Carbon as Graphene Nanosolenoids. <i>Nano Letters</i> , 2016 , 16, 34-9 | 11.5 | 67 |
| 254 | Direct and Indirect Interlayer Excitons in a van der Waals Heterostructure of hBN/WS ₂ /MoS ₂ /hBN. <i>ACS Nano</i> , 2018 , 12, 2498-2505 | 16.7 | 67 |
| 253 | Carrier Delocalization in Two-Dimensional Coplanar p-n Junctions of Graphene and Metal Dichalcogenides. <i>Nano Letters</i> , 2016 , 16, 5032-6 | 11.5 | 67 |
| 252 | The ultimate diamond slab: GraphAne versus graphEne. <i>Diamond and Related Materials</i> , 2010 , 19, 368-373 | 3.5 | 66 |
| 251 | Origins and effects of thermal processes on near-field optical probes. <i>Applied Physics Letters</i> , 1995 , 67, 2597-2599 | 3.4 | 66 |
| 250 | Influence of Size Effect on the Electronic and Elastic Properties of Diamond Films with Nanometer Thickness. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 132-136 | 3.8 | 65 |
| 249 | Energetics of Stone-Wales defects in deformations of monoatomic hexagonal layers. <i>Computational Materials Science</i> , 2002 , 23, 62-72 | 3.2 | 64 |
| 248 | Breaking of symmetry in graphene growth on metal substrates. <i>Physical Review Letters</i> , 2015 , 114, 115502 | 6.4 | 63 |
| 247 | Two-dimensional boron-nitrogen-carbon monolayers with tunable direct band gaps. <i>Nanoscale</i> , 2015 , 7, 12023-9 | 7.7 | 63 |
| 246 | Oxidized Laser-Induced Graphene for Efficient Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2018 , 30, e1707319 | 24 | 63 |
| 245 | Large hexagonal bi- and trilayer graphene single crystals with varied interlayer rotations. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1565-9 | 16.4 | 63 |

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| 244 | An Anomalous Formation Pathway for Dislocation-Sulfur Vacancy Complexes in Polycrystalline Monolayer MoS ₂ . <i>Nano Letters</i> , 2015 , 15, 6855-61 | 11.5 | 62 |
| 243 | Strain-rate and temperature dependent plastic yield in carbon nanotubes from ab initio calculations. <i>Applied Physics Letters</i> , 2004 , 84, 2775-2777 | 3.4 | 62 |
| 242 | Thermodynamics of yield in boron nitride nanotubes. <i>Physical Review B</i> , 2003 , 68, | 3.3 | 62 |
| 241 | Predicting stable phase monolayer Mo ₂ C (MXene), a superconductor with chemically-tunable critical temperature. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3438-3444 | 7.1 | 60 |
| 240 | Flexoelectricity in Carbon Nanostructures: Nanotubes, Fullerenes, and Nanocones. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2740-4 | 6.4 | 59 |
| 239 | Coalescence of fullerene cages: Topology, energetics, and molecular dynamics simulation. <i>Physical Review B</i> , 2002 , 66, | 3.3 | 59 |
| 238 | Mechanisms of the oxygen reduction reaction on B- and/or N-doped carbon nanomaterials with curvature and edge effects. <i>Nanoscale</i> , 2018 , 10, 1129-1134 | 7.7 | 58 |
| 237 | Defect-detriment to graphene strength is concealed by local probe: the topological and geometrical effects. <i>ACS Nano</i> , 2015 , 9, 401-8 | 16.7 | 57 |
| 236 | Metal-assisted hydrogen storage on Pt-decorated single-walled carbon nanohorns. <i>Carbon</i> , 2012 , 50, 4953-4964 | 10.4 | 57 |
| 235 | Nanotubes. <i>Current Opinion in Solid State and Materials Science</i> , 1997 , 2, 706-715 | 12 | 55 |
| 234 | The boron buckyball and its precursors: an electronic structure study. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 13679-83 | 2.8 | 55 |
| 233 | How Much N-Doping Can Graphene Sustain?. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 106-12 | 6.4 | 54 |
| 232 | Persistence Length and Nanomechanics of Random Bundles of Nanotubes. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 105-110 | 2.3 | 54 |
| 231 | Layer Engineering of 2D Semiconductor Junctions. <i>Advanced Materials</i> , 2016 , 28, 5126-32 | 24 | 53 |
| 230 | Closed-edged graphene nanoribbons from large-diameter collapsed nanotubes. <i>ACS Nano</i> , 2012 , 6, 6023-6027 | 11.5 | 53 |
| 229 | Growing a carbon nanotube atom by atom: "and yet it does turn". <i>Nano Letters</i> , 2009 , 9, 2961-6 | 11.5 | 53 |
| 228 | Nanotube nucleation versus carbon-catalyst adhesion--probed by molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2009 , 131, 224501 | 3.9 | 53 |
| 227 | Self-modulated band gap in boron nitride nanoribbons and hydrogenated sheets. <i>Nanoscale</i> , 2013 , 5, 6381-7 | 7.7 | 52 |

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| 226 | Nanotube-derived carbon foam for hydrogen sorption. <i>Journal of Chemical Physics</i> , 2007 , 127, 164703 | 3.9 | 52 |
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