

Elena Bichoutskaia

List of Publications by Year in descending order

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135
papers

4,726
citations

134610

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124990

64
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140
all docs

140
docs citations

140
times ranked

7435
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Designing stable binary endohedral fullerene lattices. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10044-10052. | 1.3 | 2 |
| 2 | Computational Predictions for Effective Separation of Xenon/Krypton Gas Mixtures in the MFM Family of Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11475-11486. | 1.5 | 7 |
| 3 | A high-throughput screening of metal-organic framework based membranes for biogas upgrading. <i>Faraday Discussions</i> , 2021, 231, 235-257. | 1.6 | 12 |
| 4 | Selective Gas Uptake and Rotational Dynamics in a (3,24)-Connected Metal-Organic Framework Material. <i>Journal of the American Chemical Society</i> , 2021, 143, 3348-3358. | 6.6 | 39 |
| 5 | N-doping enabled defect-engineering of MoS ₂ for enhanced and selective adsorption of CO ₂ : A DFT approach. <i>Applied Surface Science</i> , 2021, 542, 148556. | 3.1 | 37 |
| 6 | The influence of surface charge on the coalescence of ice and dust particles in the mesosphere and lower thermosphere. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8735-8745. | 1.9 | 4 |
| 7 | Fission gas released from molten salt reactor fuel: the case of noble gas short life radioisotopes for radiopharmaceutical application. <i>Medicine in Novel Technology and Devices</i> , 2021, 10, 100057. | 0.9 | 4 |
| 8 | Triplet Excitation and Electroluminescence from a Supramolecular Monolayer Embedded in a Boron Nitride Tunnel Barrier. <i>Nano Letters</i> , 2020, 20, 278-283. | 4.5 | 9 |
| 9 | Porous Metal-Organic Polyhedra: Morphology, Porosity, and Guest Binding. <i>Inorganic Chemistry</i> , 2020, 59, 15646-15658. | 1.9 | 16 |
| 10 | Molecular Quantum Rings Formed from a $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -Conjugated Macrocycle. <i>Physical Review Letters</i> , 2020, 125, 206803. | 2.9 | 19 |
| 11 | Noncovalent passivation of supported phosphorene for device applications: from morphology to electronic properties. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12482-12488. | 1.3 | 6 |
| 12 | Bond Dissociation and Reactivity of HF and H ₂ O in a Nano Test Tube. <i>ACS Nano</i> , 2020, 14, 11178-11189. | 7.3 | 17 |
| 13 | Atomic mechanism of metal crystal nucleus formation in a single-walled carbon nanotube. <i>Nature Chemistry</i> , 2020, 12, 921-928. | 6.6 | 58 |
| 14 | Low dimensional nanostructures of fast ion conducting lithium nitride. <i>Nature Communications</i> , 2020, 11, 4492. | 5.8 | 19 |
| 15 | Probing Chemical Kinetics in Two Dimensional Materials Using Atomic Resolution Imaging.. <i>Microscopy and Microanalysis</i> , 2020, 26, 90-90. | 0.2 | 0 |
| 16 | The Interaction of Hydrogen with the van der Waals Crystal I ³ -InSe. <i>Molecules</i> , 2020, 25, 2526. | 1.7 | 11 |
| 17 | Self-Assembly Behavior of Oppositely Charged Inverse Bipatchy Microcolloids. <i>Small</i> , 2020, 16, e2000442. | 5.2 | 9 |
| 18 | Imaging an unsupported metal-metal bond in dirhenium molecules at the atomic scale. <i>Science Advances</i> , 2020, 6, eaay5849. | 4.7 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Electrostatic interactions between spheroidal dielectric particles. <i>Journal of Chemical Physics</i> , 2020, 152, 024121. | 1.2 | 14 |
| 20 | Epitaxial multilayers of alkanes on two-dimensional black phosphorus as passivating and electrically insulating nanostructures. <i>Nanoscale</i> , 2019, 11, 17252-17261. | 2.8 | 13 |
| 21 | Ordering, flexibility and frustration in arrays of porphyrin nanorings. <i>Nature Communications</i> , 2019, 10, 2932. | 5.8 | 16 |
| 22 | Interaction between particles with inhomogeneous surface charge distributions: Revisiting the Coulomb fission of dication molecular clusters. <i>Journal of Chemical Physics</i> , 2019, 151, 154113. | 1.2 | 4 |
| 23 | Observing Structural Dynamics and Measuring Chemical Kinetics in Low Dimensional Materials Using High Speed Imaging. <i>Microscopy and Microanalysis</i> , 2019, 25, 1682-1683. | 0.2 | 2 |
| 24 | Resonant inelastic X-ray scattering of a Ru photosensitizer: Insights from individual ligands to the electronic structure of the complete molecule. <i>Journal of Chemical Physics</i> , 2019, 151, 074701. | 1.2 | 12 |
| 25 | The effects of encapsulation on damage to molecules by electron radiation. <i>Micron</i> , 2019, 120, 96-103. | 1.1 | 14 |
| 26 | Steric and Electronic Control of 1,3-Dipolar Cycloaddition Reactions in Carbon Nanotube Nanoreactors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6294-6302. | 1.5 | 13 |
| 27 | Synthesis and characterisation of rylene diimide dimers using molecular handcuffs. <i>Chemical Science</i> , 2019, 10, 3723-3732. | 3.7 | 28 |
| 28 | Enhancement of CO ₂ Uptake and Selectivity in a Metal-Organic Framework by the Incorporation of Thiophene Functionality. <i>Inorganic Chemistry</i> , 2018, 57, 5074-5082. | 1.9 | 50 |
| 29 | Dynamic simulations of many-body electrostatic self-assembly. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170143. | 1.6 | 11 |
| 30 | Electrostatic Self-Assembly: Understanding the Significance of the Solvent. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 905-915. | 2.3 | 31 |
| 31 | Implanting Germanium into Graphene. <i>ACS Nano</i> , 2018, 12, 4641-4647. | 7.3 | 86 |
| 32 | Adsorption of Hexacontane on Hexagonal Boron Nitride. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27575-27581. | 1.5 | 9 |
| 33 | Atomistic Simulations of the Efficiencies of Ge and Pt Ion Implantation into Graphene. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25700-25708. | 1.5 | 6 |
| 34 | The growth and fluorescence of phthalocyanine monolayers, thin films and multilayers on hexagonal boron nitride. <i>Chemical Communications</i> , 2018, 54, 12021-12024. | 2.2 | 12 |
| 35 | Pore-filling contamination in metal-organic frameworks. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23616-23624. | 1.3 | 4 |
| 36 | Comparison of atomic scale dynamics for the middle and late transition metal nanocatalysts. <i>Nature Communications</i> , 2018, 9, 3382. | 5.8 | 35 |

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|----|---|-----|-----------|
| 37 | Substrate-induced shifts and screening in the fluorescence spectra of supramolecular adsorbed organic monolayers. <i>Journal of Chemical Physics</i> , 2018, 149, 054701. | 1.2 | 22 |
| 38 | An integral equation approach to calculate electrostatic interactions in many-body dielectric systems. <i>Journal of Computational Physics</i> , 2018, 371, 712-731. | 1.9 | 28 |
| 39 | Electrostatic interactions between charged dielectric particles in an electrolyte solution: constant potential boundary conditions. <i>Soft Matter</i> , 2018, 14, 5480-5487. | 1.2 | 16 |
| 40 | The effect of like-charge attraction on aerosol growth in the atmosphere of Titan. <i>Icarus</i> , 2017, 291, 245-253. | 1.1 | 18 |
| 41 | Stop-Frame Filming and Discovery of Reactions at the Single-Molecule Level by Transmission Electron Microscopy. <i>ACS Nano</i> , 2017, 11, 2509-2520. | 7.3 | 46 |
| 42 | Tailoring porosity and rotational dynamics in a series of octacarboxylate metal-organic frameworks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3056-3061. | 3.3 | 73 |
| 43 | Coulomb fission in multiply charged molecular clusters: Experiment and theory. <i>Journal of Chemical Physics</i> , 2017, 146, 164302. | 1.2 | 6 |
| 44 | The right isotherms for the right reasons? Validation of generic force fields for prediction of methane adsorption in metal-organic frameworks. <i>Molecular Simulation</i> , 2017, 43, 828-837. | 0.9 | 18 |
| 45 | Supramolecular heterostructures formed by sequential epitaxial deposition of two-dimensional hydrogen-bonded arrays. <i>Nature Chemistry</i> , 2017, 9, 1191-1197. | 6.6 | 79 |
| 46 | Chemical Reactions of Molecules Promoted and Simultaneously Imaged by the Electron Beam in Transmission Electron Microscopy. <i>Accounts of Chemical Research</i> , 2017, 50, 1797-1807. | 7.6 | 79 |
| 47 | Investigation of the Interactions and Bonding between Carbon and Group VIII Metals at the Atomic Scale. <i>Small</i> , 2016, 12, 1649-1657. | 5.2 | 27 |
| 48 | Computational Evaluation of the Impact of Incorporated Nitrogen and Oxygen Heteroatoms on the Affinity of Polyaromatic Ligands for Carbon Dioxide and Methane in Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27342-27348. | 1.5 | 9 |
| 49 | Electrostatic interactions between charged dielectric particles in an electrolyte solution. <i>Journal of Chemical Physics</i> , 2016, 145, 084103. | 1.2 | 30 |
| 50 | Reaction kinetics of bond rotations in graphene. <i>Carbon</i> , 2016, 105, 176-182. | 5.4 | 18 |
| 51 | Effective Binding of Methane Using a Weak Hydrogen Bond. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3701-3709. | 1.1 | 7 |
| 52 | Dynamic Behavior of Single Fe Atoms Embedded in Graphene. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21998-22003. | 1.5 | 25 |
| 53 | Amides Do Not Always Work: Observation of Guest Binding in an Amide-Functionalized Porous Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 14828-14831. | 6.6 | 44 |
| 54 | Direct Measurement of Electron Transfer in Nanoscale Host-Guest Systems: Metallocenes in Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2016, 22, 13540-13549. | 1.7 | 18 |

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|----|---|------|-----------|
| 55 | The influence hydrogen atom addition has on charge switching during motion of the metal atom in endohedral Ca@C ₆₀ H ₄ isomers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150319. | 1.6 | 3 |
| 56 | Growth of single-layer boron nitride dome-shaped nanostructures catalysed by iron clusters. Nanoscale, 2016, 8, 15079-15085. | 2.8 | 5 |
| 57 | Observation of Binding and Rotation of Methane and Hydrogen within a Functional Metal-Organic Framework. Journal of the American Chemical Society, 2016, 138, 9119-9127. | 6.6 | 54 |
| 58 | Stabilising the lowest energy charge-separated state in a {metal chromophore - fullerene} assembly: a tuneable panchromatic absorbing donor-acceptor triad. Chemical Science, 2016, 7, 5908-5921. | 3.7 | 15 |
| 59 | Mechanisms of monovacancy diffusion in graphene. Chemical Physics Letters, 2016, 648, 161-165. | 1.2 | 24 |
| 60 | Progress in the theory of electrostatic interactions between charged particles. Physical Chemistry Chemical Physics, 2016, 18, 5883-5895. | 1.3 | 42 |
| 61 | Electron beam controlled covalent attachment of small organic molecules to graphene. Nanoscale, 2016, 8, 2711-2719. | 2.8 | 28 |
| 62 | Epitaxial Retrieval of a Disappearing Polymorph. Crystal Growth and Design, 2015, 15, 115-123. | 1.4 | 10 |
| 63 | Transmission Electron Microscopy: Isotope Substitution Extends the Lifetime of Organic Molecules in Transmission Electron Microscopy (Small 5/2015). Small, 2015, 11, 510-510. | 5.2 | 4 |
| 64 | A General Geometric Representation of Sphere-Sphere Interactions. Progress in Theoretical Chemistry and Physics, 2015, , 29-36. | 0.2 | 3 |
| 65 | Energetics of atomic scale structure changes in graphene. Chemical Society Reviews, 2015, 44, 3143-3176. | 18.7 | 141 |
| 66 | Adsorbate-Induced Curvature and Stiffening of Graphene. Nano Letters, 2015, 15, 159-164. | 4.5 | 24 |
| 67 | Switching intermolecular interactions by confinement in carbon nanotubes. Chemical Communications, 2015, 51, 648-651. | 2.2 | 5 |
| 68 | Isotope Substitution Extends the Lifetime of Organic Molecules in Transmission Electron Microscopy. Small, 2015, 11, 622-629. | 5.2 | 39 |
| 69 | Cyclometallated platinum(<i>ii</i>) complexes containing NHC ligands: synthesis, characterization, photophysics and their application as emitters in OLEDs. Dalton Transactions, 2015, 44, 7152-7162. | 1.6 | 37 |
| 70 | Band gap expansion, shear inversion phase change behaviour and low-voltage induced crystal oscillation in low-dimensional tin selenide crystals. Dalton Transactions, 2014, 43, 7391-7399. | 1.6 | 26 |
| 71 | Electrostatic force between a charged sphere and a planar surface: A general solution for dielectric materials. Journal of Chemical Physics, 2014, 140, 074107. | 1.2 | 46 |
| 72 | A Novel Bismuth-Based Metal-Organic Framework for High Volumetric Methane and Carbon Dioxide Adsorption. Chemistry - A European Journal, 2014, 20, 8024-8029. | 1.7 | 67 |

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|----|--|-----|-----------|
| 73 | Formation of nickelâ€“carbon heterofullerenes under electron irradiation. Dalton Transactions, 2014, 43, 7499-7513. | 1.6 | 12 |
| 74 | Polarisation charge switching through the motion of metal atoms trapped in fullerene cages. Physical Chemistry Chemical Physics, 2014, 16, 23869-23873. | 1.3 | 12 |
| 75 | Analysis of High and Selective Uptake of CO ₂ in an Oxamideâ€“Containing {Cu ₂ (OOCR) ₄ }â€“Based Metalâ€“Organic Framework. Chemistry - A European Journal, 2014, 20, 7317-7324. | 1.7 | 119 |
| 76 | A Robust Binary Supramolecular Organic Framework (SOF) with High CO ₂ Adsorption and Selectivity. Journal of the American Chemical Society, 2014, 136, 12828-12831. | 6.6 | 287 |
| 77 | Methane Adsorption in Metalâ€“Organic Frameworks Containing Nanographene Linkers: A Computational Study. Journal of Physical Chemistry C, 2014, 118, 15573-15580. | 1.5 | 17 |
| 78 | Transition Metal Complexes of a Salenâ€“Fullerene Diad: Redox and Catalytically Active Nanostructures for Delivery of Metals in Nanotubes. Chemistry - A European Journal, 2013, 19, 11999-12008. | 1.7 | 15 |
| 79 | Approaches to modelling irradiation-induced processes in transmission electron microscopy. Nanoscale, 2013, 5, 6677. | 2.8 | 32 |
| 80 | Modulating the packing of [Cu ₂₄ (isophthalate) ₂₄] cuboctahedra in a triazole-containing metalâ€“organic polyhedral framework. Chemical Science, 2013, 4, 1731. | 3.7 | 123 |
| 81 | Electron-beam engineering of single-walled carbon nanotubes from bilayer graphene. Carbon, 2013, 65, 80-86. | 5.4 | 26 |
| 82 | Surface-charge distribution on a dielectric sphere due to an external point charge: examples of C ₆₀ and C ₂₄₀ fullerenes. Physical Chemistry Chemical Physics, 2013, 15, 20115. | 1.3 | 9 |
| 83 | Stability and dynamics of vacancy in graphene flakes: Edge effects. Chemical Physics Letters, 2013, 557, 80-87. | 1.2 | 35 |
| 84 | Inclusion of radiation damage dynamics in high-resolution transmission electron microscopy image simulations: The example of graphene. Physical Review B, 2013, 87, . | 1.1 | 31 |
| 85 | Meso-scale modelling of shock wave propagation in a SiC/Al nanocomposite reinforced with WS ₂ -inorganic fullerene nanoparticles. Composite Structures, 2013, 96, 601-605. | 3.1 | 9 |
| 86 | Coulomb Fission in Dielectric Dication Clusters: Experiment and Theory on Steps That May Underpin the Electrospay Mechanism. Journal of Physical Chemistry A, 2013, 117, 3877-3886. | 1.1 | 12 |
| 87 | Electronic excitation in bulk and nanocrystalline alkali halides. Journal of Chemical Physics, 2012, 137, 184104. | 1.2 | 3 |
| 88 | Interactions and Reactions of Transition Metal Clusters with the Interior of Single-Walled Carbon Nanotubes Imaged at the Atomic Scale. Journal of the American Chemical Society, 2012, 134, 3073-3079. | 6.6 | 83 |
| 89 | Reply to the â€“Comment on â€“Treating highly charged carbon and fullerene clusters as dielectric particlesâ€“â€™ by H. Zettergren and H. Cederquist, Phys. Chem. Chem. Phys., 2012, 14, DOI: 10.1039/c2cp42883k.3 Physical Chemistry Chemical Physics, 2012, 14, 16771. | | 4 |
| 90 | Aberration corrected imaging of a carbon nanotube encapsulated Lindqvist Ion and correlation with Density Functional Theory. Journal of Physics: Conference Series, 2012, 371, 012018. | 0.3 | 1 |

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| 91 | Controlling the Regioselectivity of the Hydrosilylation Reaction in Carbon Nanoreactors. Chemistry - A European Journal, 2012, 18, 13180-13187. | 1.7 | 47 |
| 92 | Size, Structure, and Helical Twist of Graphene Nanoribbons Controlled by Confinement in Carbon Nanotubes. ACS Nano, 2012, 6, 3943-3953. | 7.3 | 134 |
| 93 | Sequential multiscale modelling of SiC/Al nanocomposites reinforced with WS ₂ nanoparticles under static loading. Physical Review B, 2012, 86, . | 1.1 | 6 |
| 94 | Absolute electrostatic force between two charged particles in a low dielectric solvent. Soft Matter, 2012, 8, 6210. | 1.2 | 13 |
| 95 | Selective CO ₂ uptake and inverse CO ₂ /C ₂ H ₂ selectivity in a dynamic bifunctional metal-organic framework. Chemical Science, 2012, 3, 2993. | 3.7 | 117 |
| 96 | A partially interpenetrated metal-organic framework for selective hysteretic sorption of carbon dioxide. Nature Materials, 2012, 11, 710-716. | 13.3 | 430 |
| 97 | High-precision imaging of an encapsulated Lindqvist ion and correlation of its structure and symmetry with quantum chemical calculations. Nanoscale, 2012, 4, 1190. | 2.8 | 11 |
| 98 | Treating highly charged carbon and fullerene clusters as dielectric particles. Physical Chemistry Chemical Physics, 2011, 13, 18339-18346. | 1.3 | 18 |
| 99 | Self-assembly of a sulphur-terminated graphene nanoribbon within a single-walled carbon nanotube. Nature Materials, 2011, 10, 687-692. | 13.3 | 253 |
| 100 | Reactions of the inner surface of carbon nanotubes and nanoprotrusion processes imaged at the atomic scale. Nature Chemistry, 2011, 3, 732-737. | 6.6 | 83 |
| 101 | Why like-charged particles of dielectric materials can be attracted to one another. Journal of Colloid and Interface Science, 2011, 354, 417-420. | 5.0 | 35 |
| 102 | Chapter 8. Theoretical Strategies for Functionalisation and Encapsulation of Nanotubes. RSC Theoretical and Computational Chemistry Series, 2011, , 225-278. | 0.7 | 0 |
| 103 | High Frequency Electromechanical Memory Cells Based on Telescoping Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2010, 10, 4322-4328. | 0.9 | 1 |
| 104 | Direct transformation of graphene to fullerene. Nature Chemistry, 2010, 2, 450-453. | 6.6 | 361 |
| 105 | Electrostatic analysis of the interactions between charged particles of dielectric materials. Journal of Chemical Physics, 2010, 133, 024105. | 1.2 | 95 |
| 106 | Study of polycyclic aromatic hydrocarbons adsorbed on graphene using density functional theory with empirical dispersion correction. Physical Chemistry Chemical Physics, 2010, 12, 6483. | 1.3 | 85 |
| 107 | Nanoresonator Based on Relative Vibrations of the Walls of Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 523-530. | 1.0 | 9 |
| 108 | Modeling of an ultrahigh-frequency resonator based on the relative vibrations of carbon nanotubes. Physical Review B, 2009, 80, . | 1.1 | 24 |

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|-----|--|-----|-----------|
| 109 | Ab initio calculations of the walls shear strength of carbon nanotubes. <i>Technical Physics Letters</i> , 2009, 35, 666-669. | 0.2 | 12 |
| 110 | An electromechanical nanothermometer based on thermal vibrations of carbon nanotube walls. <i>Physics of the Solid State</i> , 2009, 51, 1306-1314. | 0.2 | 6 |
| 111 | Nanotube-based data storage devices. <i>Materials Today</i> , 2008, 11, 38-43. | 8.3 | 30 |
| 112 | Electromechanical Nanothermometer Based on Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008, 16, 352-356. | 1.0 | 2 |
| 113 | A theoretical study of the cohesion of noble gases on graphite. <i>Journal of Chemical Physics</i> , 2008, 128, 024709. | 1.2 | 20 |
| 114 | Theoretical study of the structures and electronic properties of all-surface KI and CsI nanocrystals encapsulated in single walled carbon nanotubes. <i>Journal of Chemical Physics</i> , 2008, 129, 154701. | 1.2 | 13 |
| 115 | Nanorelay Based on Multi-walled Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008, 16, 340-343. | 1.0 | 3 |
| 116 | Modelling interwall interactions in carbon nanotubes: fundamentals and device applications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 2893-2906. | 1.6 | 6 |
| 117 | Polarizability of the Iodide Ion in Crystal. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9548-9561. | 1.5 | 11 |
| 118 | Electromechanical nanothermometer. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 366, 480-486. | 0.9 | 23 |
| 119 | Nanoelectromechanical systems based on multi-walled nanotubes: nanothermometer, nanorelay, and nanoactuator. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1911-1917. | 0.8 | 39 |
| 120 | Diffusion of Walls in Double-walled Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006, 14, 215-220. | 1.0 | 5 |
| 121 | Interwall interaction and elastic properties of carbon nanotubes. <i>Physical Review B</i> , 2006, 73, . | 1.1 | 59 |
| 122 | Fundamental Global Model for the Structures and Energetics of Nanocrystalline Ionic Solids. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5936-5949. | 1.2 | 13 |
| 123 | Multi-walled Nanotubes: Commensurate-Incommensurate Phase Transition and NEMS Applications. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006, 14, 131-140. | 1.0 | 25 |
| 124 | Structure and energetics of LiF chains as a model for low dimensional alkali halide nanocrystals. <i>Chemical Physics Letters</i> , 2006, 423, 234-239. | 1.2 | 7 |
| 125 | Ab initio study of relative motion of walls in carbon nanotubes. <i>Physical Review B</i> , 2005, 71, . | 1.1 | 48 |
| 126 | Extrapolation methods and scaled perturbation theory for determining intermolecular potential energy surfaces. <i>International Journal of Quantum Chemistry</i> , 2004, 96, 537-546. | 1.0 | 5 |

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|-----|--|-----|-----------|
| 127 | Ab initio spectroscopy of Van der Waals molecules: a comparison of three different theoretical methods applied to NeHF and NeDF. <i>Chemical Physics Letters</i> , 2004, 393, 70-75. | 1.2 | 1 |
| 128 | Intermolecular potential energy extrapolation method for weakly bound systems: Ar ₂ , ArH ₂ and ArHF dimers. <i>Molecular Physics</i> , 2004, 102, 567-577. | 0.8 | 8 |
| 129 | Intermolecular potentials from supermolecule and monomer calculations. <i>International Reviews in Physical Chemistry</i> , 2004, 23, 151-185. | 0.9 | 22 |
| 130 | Perturbative, acausal effects in ultracold non-crossing atomic collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 11-18. | 0.6 | 1 |
| 131 | On the semiclassical approach to cold atomic collisions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2002, 458, 1399-1409. | 1.0 | 1 |
| 132 | Semiclassical analytical approach to the description of quasimolecular optical transitions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 2469-2475. | 0.6 | 5 |
| 133 | Extrapolation of intermolecular interaction energies in weakly bound Van der Waals complexes. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2002, 2, 391-397. | 0.1 | 6 |
| 134 | Spectroscopy of quasimolecular optical transitions: Ca(4s ² 1S ⁰ → 4s4p ¹ P, 4s3d ¹ D ²)-He. The influence of radiation width. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 2301-2312. | 0.6 | 7 |
| 135 | Quasi-molecular emission and nonadiabatic transitions: II. Ca(4s4p ¹ P, 4s3d ¹ D)-He(1s ² , 1S ⁰) quasi-molecule. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2000, 88, 163-168. | 0.2 | 1 |