# JenÅ‘ KÃ¼rti

List of Publications by Year
in descending order



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|---|---|---|---|
| 104 papers | 4,097 citations | 136885 32 h-index | 118793 62 g-index |
| 104 all docs | 104 docs citations | 104 times ranked | 4419 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Well-defined sub-nanometer graphene ribbons synthesized inside carbon nanotubes. Carbon, 2021, 171, 221-229. | 5.4 | 23 |
| 2 | Large intravalley scattering due to pseudo-magnetic fields in crumpled graphene. Npj 2D Materials and Applications, 2019, 3, . | 3.9 | 16 |
| 3 | Molecular Dynamics Simulation of Carbon Structures Inside Small Diameter Carbon Nanotubes. Physica Status Solidi (B): Basic Research, 2017, 254, 1700206. | 0.7 | 3 |
| 4 | The growth of new extended carbon nanophases from ferrocene inside singleâ€walled carbon nanotubes. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700158. | 1.2 | 17 |
| 5 | Doped carbon nanotubes as a model system of biased graphene. Physical Review B, 2017, 96, . | 1.1 | 11 |
| 6 | Preparing local strain patterns in graphene by atomic force microscope based indentation. Scientific Reports, 2017, 7, 3035. | 1.6 | 24 |
| 7 | Controlled Isotope Arrangement in <sup>13</sup>C Enriched Carbon Nanotubes. Journal of Physical Chemistry C, 2016, 120, 29520-29524. | 1.5 | 5 |
| 8 | Resonance Raman Optical Activity of Single Walled Chiral Carbon Nanotubes. Journal of Physical Chemistry A, 2016, 120, 5527-5538. | 1.1 | 9 |
| 9 | Towards improved exact exchange functionals relying onGWquasiparticle methods for parametrization. Physical Review B, 2015, 92, . | 1.1 | 7 |
| 10 | Raman spectra of hydrocarbons formed in carbon nanotubes - a theoretical study. Physica Status Solidi (B): Basic Research, 2015, 252, 2541-2545. | 0.7 | 4 |
| 11 | The origin of nondispersive Raman lines in the D-band region for ferrocene@HiPco SWCNTs transformed at high temperatures. Physica Status Solidi (B): Basic Research, 2015, 252, 2530-2535. | 0.7 | 4 |
| 12 | I-band-like non-dispersive inter-shell interaction induced Raman lines in the D-band region of double-walled carbon nanotubes. Applied Physics A: Materials Science and Processing, 2015, 118, 587-593. | 1.1 | 3 |
| 13 | Hydrocarbon chains and rings: bond length alternation in finite molecules. Theoretical Chemistry Accounts, 2015, 134, 1. | 0.5 | 2 |
| 14 | Stokes-anti-Stokes contribution to double resonance Raman processes in graphene. Physica Status Solidi (B): Basic Research, 2014, 251, 2525-2529. | 0.7 | 2 |
| 15 | Toward Synthesis and Characterization of Unconventional C<sub>66</sub> and C<sub>68</sub> Fullerenes inside Carbon Nanotubes. Journal of Physical Chemistry C, 2014, 118, 30260-30268. | 1.5 | 6 |
| 16 | Theoretical vibrational optical activity of chiral carbon nanoparticles: Fullerenes and carbon nanotubes. Physica Status Solidi (B): Basic Research, 2014, 251, 2451-2456. | 0.7 | 6 |
| 17 | Carbon nanobamboo: Junctions between left and right handed single walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2012, 249, 2652-2655. | 0.7 | 0 |
| 18 | Raman spectra of titanium dioxide (anatase, rutile) with identified oxygen isotopes (16, 17, 18). Physical Chemistry Chemical Physics, 2012, 14, 14567. | 1.3 | 417 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Vibrational Signatures in the Infrared Spectra of Single- and Double-Walled Carbon Nanotubes and Their Diameter Dependence. Journal of Physical Chemistry Letters, 2011, 2, 2079-2082. | 2.1 | 15 |
| 20 | Oxygen-isotope labeled titania: Ti18O2. Physical Chemistry Chemical Physics, 2011, 13, 11583. | 1.3 | 46 |
| 21 | Density of states deduced from ESR measurements on lowâ€dimensional nanostructures; benchmarks to identify the ESR signals of graphene and SWCNTs. Physica Status Solidi (B): Basic Research, 2011, 248, 2688-2691. | 0.7 | 16 |
| 22 | Resonance Raman spectroscopy of graphite and graphene. Physica Status Solidi (B): Basic Research, 2011, 248, 2435-2444. | 0.7 | 103 |
| 23 | Enhanced NMR Relaxation of Tomonaga-Luttinger Liquids and the Magnitude of the Carbon Hyperfine Coupling in Single-Wall Carbon Nanotubes. Physical Review Letters, 2011, 107, 187204. | 2.9 | 9 |
| 24 | Functionalization of graphene with transition metals. Physica Status Solidi (B): Basic Research, 2010, 247, 2920-2923. | 0.7 | 12 |
| 25 | Unusual Raman dispersion for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>D</mml:mi></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mi>D</mml:mi></mml:mrow></mml:math>lines in high-curvature single-walled carbon nanotubes revealed by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts | 1.1 | 8 |
| 26 | Characteristics of bamboo defects in peapod-grown double-walled carbon nanotubes. Physical Review B, 2010, 82, . | 1.1 | 3 |
| 27 | First Principles Study of the Binding of 4d and 5d Transition Metals to Graphene. Journal of Physical Chemistry C, 2010, 114, 18548-18552. | 1.5 | 49 |
| 28 | An Anomalous Enhancement of the Ag(2) Mode in the Resonance Raman Spectra of C60 Embedded in Single-Walled Carbon Nanotubes during Anodic Charging. Journal of Physical Chemistry C, 2010, 114, 2505-2511. | 1.5 | 10 |
| 29 | Singleâ€wall carbon nanotubes: spintronics in the Luttinger liquid phase. Physica Status Solidi (B): Basic Research, 2009, 246, 2744-2749. | 0.7 | 0 |
| 30 | Using line group theory for the symmetry assignment of the phonons of single walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 2614-2617. | 0.7 | 4 |
| 31 | Junctions of leftâ€•and rightâ€handed chiral carbon nanotubes â€“ nanobamboo. Physica Status Solidi (B): Basic Research, 2009, 246, 2671-2674. | 0.7 | 3 |
| 32 | Identifying the electron spin resonance of conduction electrons in alkali doped SWCNTs. Physica Status Solidi (B): Basic Research, 2009, 246, 2760-2763. | 0.7 | 15 |
| 33 | Two component doping of fullereneâ€“cubane cocrystals. Physica Status Solidi (B): Basic Research, 2009, 246, 2618-2621. | 0.7 | 1 |
| 34 | The electronic band structure of fullereneâ€cubane cocrystals. Physica Status Solidi (B): Basic Research, 2008, 245, 2018-2021. | 0.7 | 3 |
| 35 | Electron spin resonance in alkali doped SWCNTs. Physica Status Solidi (B): Basic Research, 2008, 245, 1975-1978. | 0.7 | 10 |
| 36 | Phonon dispersion of small diameter semiconducting chiral carbon nanotubes â€“ a theoretical study. Physica Status Solidi (B): Basic Research, 2008, 245, 2137-2140. | 0.7 | 8 |

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|---|---|---|---|
| 37 | Theoretical study of the electronic structure and the totally symmetric vibrations of selected CoMoCat carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2141-2144. | 0.7 | 2 |
| 38 | Fine tuning the charge transfer in carbon nanotubes via the interconversion of encapsulated molecules. Physical Review B, 2008, 77, . | 1.1 | 79 |
| 39 | In Situ Raman Spectroelectrochemistry of Single-Walled Carbon Nanotubes: Investigation of Materials Enriched with (6,5) Tubes. Journal of Physical Chemistry C, 2008, 112, 14179-14187. | 1.5 | 22 |
| 40 | Intershell interaction in double walled carbon nanotubes: Charge transfer and orbital mixing. Physical Review B, 2008, 77, . | 1.1 | 61 |
| 41 | Theoretical study of the electronic structure of fullerene-cubane cocrystals. Physical Review B, 2008, 78, . | 1.1 | 9 |
| 42 | Electron Spin Resonance Signal of Luttinger Liquids and Single-Wall Carbon Nanotubes. Physical Review Letters, 2008, 101, 106408. | 2.9 | 35 |
| 43 | Inhomogeneity ofC13isotope distribution in isotope engineered carbon nanotubes: Experiment and theory. Physical Review B, 2007, 75, . | 1.1 | 21 |
| 44 | Application of a Novel Linear/Exponential Hybrid Force Field Scaling Scheme to the Longitudinal Raman Active Mode of Polyyne. Journal of Physical Chemistry A, 2007, 111, 2434-2441. | 1.1 | 56 |
| 45 | The effects of inhomogeneous isotope distribution on the vibrational properties of isotope enriched double walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4257-4260. | 0.7 | 0 |
| 46 | Curvature effects in the D* band of small diameter carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4261-4264. | 0.7 | 3 |
| 47 | Semiconductor-to-metal transition of double walled carbon nanotubes induced by inter-shell interaction. Physica Status Solidi (B): Basic Research, 2006, 243, 3476-3479. | 0.7 | 30 |
| 48 | Tubeâ€"tube interaction in double-wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3268-3272. | 0.7 | 28 |
| 49 | Double walled carbon nanotube with the smallest inner diameter: a first principles study. Physica Status Solidi (B): Basic Research, 2006, 243, 3464-3467. | 0.7 | 3 |
| 50 | The role of Van Hove singularities in disorder induced Raman scattering. AIP Conference Proceedings, 2005, , . | 0.3 | 0 |
| 51 | Linear carbon chain in the interior of a single walled carbon nanotube. AIP Conference Proceedings, 2005, , . | 0.3 | 0 |
| 52 | Heteronuclear carbon nanotubes. AIP Conference Proceedings, 2005, , . | 0.3 | 0 |
| 53 | Isotope Engineering of Carbon Nanotube Systems. Physical Review Letters, 2005, 95, 017401. | 2.9 | 111 |
| 54 | Bond-length alternation and charge transfer in a linear carbon chain encapsulated within a single-walled carbon nanotube. Physical Review B, 2005, 72, . | 1.1 | 83 |

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| 55 | Individualities and average behavior in the physical properties of small diameter single-walled carbon nanotubes. Carbon, 2004, 42, 971-978. | 5.4 | 32 |
| 56 | First-principles calculations for the electronic band structures of small diameter single-wall carbon nanotubes. Physical Review B, 2004, 70, . | 1.1 | 136 |
| 57 | Performance of the Vienna ab initio simulation package (VASP) in chemical applications. Computational and Theoretical Chemistry, 2003, 624, 37-45. | 1.5 | 275 |
| 58 | The geometry and the radial breathing mode of carbon nanotubes: beyond the ideal behaviour. New Journal of Physics, 2003, 5, 125-125. | 1.2 | 154 |
| 59 | Origin of the Fine Structure of the RamanDBand in Single-Wall Carbon Nanotubes. Physical Review Letters, 2003, 90, 157401. | 2.9 | 52 |
| 60 | Unusual High Degree of Unperturbed Environment in the Interior of Single-Wall Carbon Nanotubes. Physical Review Letters, 2003, 90, 225501. | 2.9 | 158 |
| 61 | Variations of the Geometries and Band Gaps of Single-Walled Carbon Nanotubes and the Effect of Charge Injection. Journal of Physical Chemistry B, 2003, 107, 6924-6931. | 1.2 | 88 |
| 62 | Dimensional change as a function of charge injection in graphite intercalation compounds: â€ƒA density functional theory study. Physical Review B, 2003, 68, . | 1.1 | 24 |
| 63 | Dimensional changes as a function of charge injection for trans-polyacetylene: A density functional theory study. Journal of Chemical Physics, 2002, 117, 7691-7697. | 1.2 | 19 |
| 64 | Dimensional Changes as a Function of Charge Injection in Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2002, 124, 15076-15080. | 6.6 | 87 |
| 65 | Double resonant Raman phenomena enhanced by van Hove singularities in single-wall carbon nanotubes. Physical Review B, 2002, 65, . | 1.1 | 143 |
| 66 | Low energy excitations in fullerene dimers and in single wall carbon nanotubes. Ferroelectrics, 2001, 249, 125-134. | 0.3 | 2 |
| 67 | Density functional study of the phase diagram of 3D C[sub 60]-polymers. AIP Conference Proceedings, 2000, , . | 0.3 | 0 |
| 68 | Periodic Resonance Excitation and Intertube Interaction from Quasicontinuous Distributed Helicities in Single-Wall Carbon Nanotubes. Physical Review Letters, 2000, 84, 1324-1327. | 2.9 | 218 |
| 69 | Scanning probe method investigation of carbon nanotubes produced by high energy ion irradiation of graphite. Carbon, 1999, 37, 739-744. | 5.4 | 5 |
| 70 | Resonance raman investigation of single wall carbon nanotubes. Synthetic Metals, 1999, 103, 2508-2509. | 2.1 | 20 |
| 71 | First-principles calculations of the radial breathing mode of single-wall carbon nanotubes. Physical Review B, 1998, 58, R8869-R8872. | 1.1 | 294 |
| 72 | Spectroscopic analysis of different types of single-wall carbon nanotubes. Europhysics Letters, 1998, 44, 518-524. | 0.7 | 46 |

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|---|---|---|---|
| 73 | Resonance Raman scattering of the radial breathing mode in single wall carbon nanotubes. , 1998, , . | | 0 |
| 74 | On The Differences Between Neutral and Negatively Charged C60Dimers. Fullerenes, Nanotubes, and Carbon Nanostructures, 1997, 5, 429-442. | 0.6 | 1 |
| 75 | Spectroscopic studies of iron(III) complexes of D-saccharose and D-glucose in the solid state and in solution. Journal of Radioanalytical and Nuclear Chemistry, 1996, 209, 225-234. | 0.7 | 10 |
| 76 | Structure and energetics of neutral and negatively charged C60 dimers. Chemical Physics Letters, 1996, 256, 119-125. | 1.2 | 63 |
| 77 | Optical spectra of diels-alder adducts of C60. Synthetic Metals, 1995, 70, 1377-1378. | 2.1 | 5 |
| 78 | Vibrational analysis for short carbon chains with alternating and cumulenic structure. Synthetic Metals, 1995, 71, 1865-1866. | 2.1 | 43 |
| 79 | Reductive Preparation of Carbyne with High Yield. An in Situ Raman Scattering Study. Macromolecules, 1995, 28, 344-353. | 2.2 | 134 |
| 80 | Design of small gap conjugated polymers. Synthetic Metals, 1993, 57, 4338-4343. | 2.1 | 36 |
| 81 | Interpretation of the Raman spectra of polyisothianaphthene: Is the structure aromatic or quinonoid?. Synthetic Metals, 1993, 55, 564-569. | 2.1 | 17 |
| 82 | Effective conjugation coordinate model: An investigation of polythiophene and poly-isothianaphthene. Synthetic Metals, 1993, 57, 4266-4271. | 2.1 | 15 |
| 83 | Phase separation inKxC60(0â‰xâ‰6) as obtained fromin situRaman spectroscopy. Physical Review B, 1992, 45, 13841-13844. | 1.1 | 90 |
| 84 | Searching for low-band-gap conjugated polymers by LHS calculations. Synthetic Metals, 1992, 50, 537-542. | 2.1 | 4 |
| 85 | Unified picture of three models for the resonance Raman effect in polyenes. Synthetic Metals, 1992, 50, 665-674. | 2.1 | 4 |
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| 91 | A simple, geometrical approach to the steady-state solution of the Bloch equations. Concepts in Magnetic Resonance, 1991, 3, 161-170. | 1.3 | 7 |
| 92 | Optical anisotropy and Raman scattering from highly oriented poly(octylthiophene) films. Physical Review B, 1991, 43, 4809-4819. | 1.1 | 46 |
| 93 | Resonance Raman scattering from finite and infinite polymer chains. Physical Review B, 1991, 44, 597-613. | 1.1 | 63 |
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| 101 | Magnetic interaction between iron/III/ ions in its complexes of some sugar type ligands. Journal of Radioanalytical and Nuclear Chemistry, 1987, 118, 437-448. | 0.7 | 7 |
| 102 | Iron(III) complexes of sugar-type ligands. Inorganica Chimica Acta, 1986, 124, 55-59. | 1.2 | 63 |
| 103 | <i>g</i>â€Factor Anisotropy and Charge Transfer in Three Complex TCNQ Salts. Physica Status Solidi (B): Basic Research, 1980, 102, 639-645. | 0.7 | 11 |
| 104 | Nonlinear transport in Qn(TCNQ)<sub>2</sub>. Physica Status Solidi (B): Basic Research, 1979, 94, 287-296. | 0.7 | 22 |