

СПИСЪК НА ЦИТИРАНИЯТА НА ВСИЧКИ НАУЧНИ ТРУДОВЕ по въглеродни структури

на проф. дфн Валентин Николов Попов

брой цитати по Thomson – Reuters, 17/05/2018

брой цитирания: общо цитати/цитати без самоцитати (EN означава самоцитат)

1. Title: Computational study of the shift of the G band of double-walled carbon nanotubes due to interlayer interactions

Author(s): Popov, V. N.; Levshov, D. I.; Sauvajol, J. L.; et al.

Source: Physical Review B **Volume:** 97 **Issue:** 16 **Published:** 2018

Times cited: 0/0

DOI: 10.1103/PhysRevB.97.165417

2. Title: Raman bands of twisted bilayer graphene

Author(s): Popov, V. N.

Source: Journal of Raman Spectroscopy **Volume:** 49 **Issue:** 1 **Pages:** 31-35 **Published:** 2018

2/2

DOI: 10.1002/jrs.5189

1. [Raman spectroscopy of graphene-based materials and its applications in related devices](#)

By: Wu, Jiang-Bin; Lin, Miao-Ling; Cong, Xin; et al. [CHEMICAL SOCIETY](#)

[REVIEWS](#) **Volume:** 47 **Issue:** 5 **Pages:** 1822-1873 **Published:** MAR 7 2018

2. [Graphene and related 2D materials: An overview of the Raman studies](#)

By: Paillet, Matthieu; Parret, Romain; Sauvajol, Jean-Louis; et al. [JOURNAL OF RAMAN](#)

[SPECTROSCOPY](#) **Volume:** 49 **Issue:** 1 **Special Issue:** SI **Pages:** 8-12 **Published:** JAN 2018

3. Title: Deposition of defected graphene on (001) Si substrates by thermal decomposition of acetone

Author(s): Milenov, T. I.; Avramova, I.; Valcheva, E.; et al.

Source: Superlattices and Microstructures **Volume:** 111 **Pages:** 45-56 **Published:** NOV 2017

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DOI: 10.1016/j.spmi.2017.04.042

4. Title: Interlayer Interaction Effects on the G Modes in Double-Walled Carbon Nanotubes With Different Electronic Configurations

Author(s): Levshov, Dmitry I.; Huy-Nam Tran; Michel, Thierry; et al.

Source: Physica Status Solidi B-Basic Solid State Physics **Volume:** 254 **Issue:** 11 **Published:** NOV 2017

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DOI: 10.1002/pssb.201700251

1. [Computational study of the shift of the G band of double-walled carbon nanotubes due to interlayer interactions](#)

By: Popov, Valentin N.; Levshov, Dmitry I.; Sauvajol, Jean-Louis; et al. [PHYSICAL REVIEW](#)

[B](#) **Volume:** 97 **Issue:** 16 **Article Number:** 165417 **Published:** APR 12 2018

5. Title: Photoluminescence from an individual double-walled carbon nanotube

Author(s): Levshov, Dmitry I.; Parret, Romain; Huy-Nam Tran; et al.

Source: Physical Review B **Volume:** 96 **Issue:** 19 **Published:** NOV 7 2017

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6. Title: Raman Spectroscopic Study of As-Deposited and Exfoliated Defected Graphene Grown on (001) Si Substrates by CVD

Author(s): Milenov, T. I.; Valcheva, E.; Popov, V. N.

Source: Journal of Spectroscopy **Published:** 2017

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DOI: 10.1155/2017/3495432

1. [Deposition of defected graphene on \(001\) Si substrates by thermal decomposition of acetone](#)

By: Milenov, T. I.; Avramova, I.; Valcheva, E.; et al. [SUPERLATTICES AND](#)

[MICROSTRUCTURES](#) **Volume:** 111 **Pages:** 45-56 **Published:** NOV 2017

7. Title: 2D Raman band of single-layer and bilayer graphene

Author(s): Popov, V. N.; Nesheva, D.; Chamati, H.; et al.

Source: Inera Conference 2015: Light in Nanoscience and Nanotechnology (Lnn

2015) **Volume:** 682 **Published:** 2016

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DOI: 10.1088/1742-6596/682/1/012013

8. Title: Comparative study of the two-phonon Raman bands of silicene and graphene

Author(s): Popov, Valentin N.; Lambin, Philippe

Source: 2d Materials **Volume:** 3 **Issue:** 2 **Published:** JUN 2016

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DOI: 10.1088/2053-1583/3/2/025014

1. [Raman bands of twisted bilayer graphene](#)

By: Popov, Valentin N. [JOURNAL OF RAMAN SPECTROSCOPY](#) **Volume:** 49 **Issue:** 1 **Special**

Issue: SI **Pages:** 31-35 **Published:** JAN 2018

2. [Two-phonon Raman scattering in graphene for laser excitation beyond the pi-plasmon energy](#)

By: Popov, Valentin N. **Conference:** INERA Conference on Vapor Phase Technologies for Metal Oxide and Carbon Nanostructures **Location:** Velingrad, BULGARIA **Date:** JUL 05-09, 2016

INERA CONFERENCE: VAPOR PHASE TECHNOLOGIES FOR METAL OXIDE AND CARBON

NANOSTRUCTURES **Book Series:** Journal of Physics Conference Series **Volume:** 764 **Article Number:** 012008 **Published:** 2016

9. Title: Excitonic optical transitions characterized by Raman excitation profiles in single-walled carbon nanotubes

Author(s): Tran, H. N.; Blancon, J. -C.; Huntzinger, J. -R.; et al.

Source: Physical Review B **Volume:** 94 **Issue:** 7 **Published:** AUG 22 2016

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DOI: 10.1103/PhysRevB.94.075430

1. [Electronic band gaps of confined linear carbon chains ranging from polyynes to carbynes](#)

By: Shi, Lei; Rohringer, Philip; Wanko, Marius; et al. [PHYSICAL REVIEW](#)

[MATERIALS](#) **Volume:** 1 **Issue:** 7 **Article Number:** 075601 **Published:** DEC 12 2017

2. [Photoluminescence from an individual double-walled carbon nanotube](#)

By: Levshov, Dmitry I.; Parret, Romain; Huy-Nam Tran; et al. [PHYSICAL REVIEW](#)

[B](#) **Volume:** 96 **Issue:** 19 **Article Number:** 195410 **Published:** NOV 7 2017

3. [Quantum interference effects on the intensity of the G modes in double-walled carbon nanotubes](#)

By: Tran, H. N.; Blancon, J. -C.; Arenal, R.; et al. [PHYSICAL REVIEW B](#) **Volume:** 95 **Issue:** 20 **Article**

Number: 205411 **Published:** MAY 8 2017

10. Title: [Two-phonon Raman scattering in graphene for laser excitation beyond the pi-plasmon energy](#)

Author(s): Popov, Valentin N.

Source: Inera Conference: Vapor Phase Technologies For Metal Oxide and Carbon

Nanostructures **Volume:** 764 **Published:** 2016

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DOI: 10.1088/1742-6596/764/1/012008

11. Title: Two-phonon Raman bands of bilayer graphene: Revisited

Author(s): Popov, V. N.

Source: Carbon **Volume:** 91 **Pages:** 436-444 **Published:** 2015

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DOI: 10.1016/j.carbon.2015.05.020

1. **Tunable quantum interference in bilayer graphene in double-resonant Raman scattering**

By: Herziger, Felix; Tyborski, Christoph; Ochedowski, Oliver; et al. *CARBON* Volume: 133 Pages: 254-259 Published: JUL 2018

2. **Raman bands of twisted bilayer graphene**

By: Popov, Valentin N. *JOURNAL OF RAMAN SPECTROSCOPY* Volume: 49 Issue: 1 Special Issue: SI Pages: 31-35 Published: JAN 2018

3. **A Guide to and Review of the Use of Multiwavelength Raman Spectroscopy for Characterizing Defective Aromatic Carbon Solids: from Graphene to Amorphous Carbons**

By: Merlen, Alexandre; Buijnsters, Josephus Gerardus; Pardanaud, Cedric *COATINGS* Volume: 7 Issue: 10 Article Number: 153 Published: OCT 2017

4. **ZA-derived phonons in the Raman spectra of single-walled carbon nanotubes**

By: Vierck, Asmus; Gannott, Florentina; Schweiger, Manuel; et al. *CARBON* Volume: 117 Pages: 360-366 Published: JUN 2017

5. **Synthesis of nanostructured amorphous carbon-copper composite films by plasma-enhanced chemical vapour deposition**

By: Cernauskas, Marius; Marcinauskas, Liutauras; Zabels, Roberts

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6. **Anisotropic phonon softening of uniaxially strained bilayer graphene**

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7. **Addressing Raman features of individual layers in isotopically labeled Bernal stacked bilayer graphene**

By: Costa, Sara D.; Weis, Johan Ek; Frank, Otakar; et al. *2D MATERIALS* Volume: 3 Issue: 2 Article Number: 025022 Published: JUN 2016

8. **Comparative study of the two-phonon Raman bands of silicene and graphene**

By: Popov, Valentin N.; Lambin, Philippe

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By: Popov, V. N. Conference: Conference on Light in Nanoscience and Nanotechnology (LNN) Location: Hissar, BULGARIA Date: OCT 20-22, 2015

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Series: Journal of Physics Conference Series Volume: 682 Article Number: 012013 Published: 2016

12. Title: Low-frequency phonons of few-layer graphene within a tight-binding model

Author(s): Popov, V. N.; Van Alsenoy, C.

Source: Physical Review B **Volume:** 90 **Issue:** 24 **Published:** 2014

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DOI: 10.1103/PhysRevB.90.245429

1. **Isotope engineering of van der Waals interactions in hexagonal boron nitride**

By: Vuong, T. Q. P.; Liu, S.; Van der Lee, A.; et al. *NATURE MATERIALS* Volume: 17 Issue: 2 Pages: 152-+ Published: FEB 2018

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By: Lin, Miao-Ling; Wu, Jiang-Bin; Liu, Xue-Lu; et al. *JOURNAL OF RAMAN*

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3. **Raman bands of twisted bilayer graphene**

By: Popov, Valentin N. *JOURNAL OF RAMAN SPECTROSCOPY* Volume: 49 Issue: 1 Special Issue: SI Pages: 31-35 Published: JAN 2018

4. **Physical properties of low-dimensional sp²-based carbon nanostructures**

By: Meunier, V.; Souza Filho, A. G.; Barros, E. B.; et al. *REVIEWS OF MODERN PHYSICS* Volume: 88 Issue: 2 Article Number: 025005 Published: MAY 24 2016

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By: Zhang, Xiao-Jun; Chen, Chang-Le

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8. **Real-time observation of graphene layer growth: Coupling of the interlayer spacing with thickness**

By: Zhu, Daming; Gao, Hui; Zhang, Xingmin; et al. *CARBON* Volume: 94 Pages: 775-780 Published: NOV 2015

13. Title: Theoretical 2D Raman band of strained graphene

Author(s): Popov, V. N.; Lambin, P.

Source: Physical Review B **Volume:** 87 **Issue:** 15 **Published:** 2013

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By: Milenov, T. I.; Valcheva, E.; Popov, V. N. *JOURNAL OF SPECTROSCOPY* Article Number: 3495432 Published: 2017

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By: Cifuentes-Quintal, M. E.; de la Pena-Seaman, O.; Heid, R.; et al. *PHYSICAL REVIEW B* Volume: 94 Issue: 8 Article Number: 085401 Published: AUG 1 2016

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7. **EN** Low-frequency phonons of few-layer graphene within a tight-binding model

By: Popov, Valentin N.; Van Alsenoy, Christian

PHYSICAL REVIEW B Volume: 90 Issue: 24 Article Number: 245429 Published: DEC 23 2014

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By: Couto, Nuno J. G.; Costanzo, Davide; Engels, Stephan; et al. PHYSICAL REVIEW

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By: Suzuki, Seiya; Nagamori, Takashi; Matsuoka, Yuki; et al. JAPANESE JOURNAL OF APPLIED

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14. **Title:** Theoretical Raman fingerprints of alpha-, beta-, and gamma-graphyne

Author(s): Popov, Valentin N.; Lambin, Philippe

Source: Physical Review B **Volume:** 88 **Issue:** 7 **Published:** AUG 21 2013
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DOI: 10.1103/PhysRevB.88.075427

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By: Li, Xiaobo; Cao, Liemao; Long, Mengqiu; et al. CARBON Volume: 131 Pages: 160-167 Published: MAY 2018

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By: Cao, Liemao; Li, Xiaobo; Jia, Chunxia; et al. CARBON Volume: 127 Pages: 519-526 Published: FEB 2018

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By: Ashhadi, M. SUPERLATTICES AND MICROSTRUCTURES Volume: 111 Pages: 1162-1171 Published: NOV 2017

5. **On the elastic and fracture properties of perfect and defective delta-graphynes: A molecular dynamics investigation**

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7. **Architecture of -Graphdiyne-Containing Thin Film Using Modified Glaser-Hay Coupling Reaction for Enhanced Photocatalytic Property of TiO₂**

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12. **Structural and electro-optical properties of bilayer graphyne like BN sheet**

By: Behzad, Somayeh

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By: Behzad, Somayeh

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By: Yi, Lijun; Zhang, Yingyan; Feng, Xiqiao; et al. JOURNAL OF APPLIED

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16. **Raman Spectra and Corresponding Strain Effects in Graphyne and Graphdiyne**

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17. **Potential Interference of Protein-Protein Interactions by Graphyne**

By: Luan, Binqun; Huynh, Tien; Zhou, Ruhong

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By: Mu, Yuewen; Li, Si-Dian

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By: Kim, Cheol-Woon; Kang, Seoung-Hun; Kwon, Young-Kyun

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By: Long, Guankui; Zhou, Yecheng; Jin, Mengting; et al. CARBON Volume: 95 Pages: 1033-1038 Published: DEC 2015

22. **Tunable thermal conductivity in carbon allotrope sheets: Role of acetylenic linkages**

By: Wang, Jian; Zhang, Ai-Juan; Tang, Yuansheng

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23. **Optical properties of alpha-, beta- gamma-, and 6,6,12-graphyne structures: First-principle calculations**
By: Shao, Zhi-Gang; Sun, Zhen-Long
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES Volume: 74 Pages: 438-442 Published: NOV 2015
24. **Ab initio vibrational and thermal properties of carbon allotropes: Polycyclic and rectangular networks**
By: Nemnes, G. A.; Visan, Camelia
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25. **Catalyst-Free and Large-Area Deposition of Graphitic Carbon Films on Glass Substrates by Pyrolysis of Camphor**
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By: Belenkov, E. A.; Mavrinskii, V. V.; Belenkova, T. E.; et al. JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS Volume: 120 Issue: 5 Pages: 820-830 Published: MAY 2015
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By: Sevincli, Haldun; Sevik, Cem
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By: Perkgoz, Nihan Kosku; Sevik, Cem
NANOTECHNOLOGY Volume: 25 Issue: 18 Article Number: 185701 Published: MAY 9 2014
- 15. Title:** Theoretical Raman intensity of the G and 2D bands of strained graphene
Author(s): Popov, V. N.; Lambin, P.
Source: Carbon **Volume:** 54 **Pages:** 86-93 **Published:** 2013
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DOI: 10.1016/j.carbon.2012.11.006
1. **Raman Mapping Analysis of Graphene-Integrated Silicon Micro-Ring Resonators**
By: Hussein, Siham M.; Crowe, Iain F.; Clark, Nick; et al. NANOSCALE RESEARCH LETTERS Volume: 12 Article Number: 600 Published: NOV 22 2017
2. **Improvement in color properties of copper mesh electrodes via electrophoretic coating with nano-structured carbon materials**
By: Hwang, Young-Jin; Kim, Bu-Jong; Park, Jin-Seok
JOURNAL OF APPLIED PHYSICS Volume: 121 Issue: 9 Article Number: 095306 Published: MAR 7 2017
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By: Milenov, T. I.; Valcheva, E.; Popov, V. N. JOURNAL OF SPECTROSCOPY Article Number: 3495432 Published: 2017
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By: Bousa, Milan; Anagnostopoulos, George; del Corro, Elena; et al. PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS Volume: 253 Issue: 12 Pages: 2355-2361 Published: DEC 2016

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By: Zhang, Linsen; Wang, Zhitao; Wang, Huan; et al. JOURNAL OF ALLOYS AND COMPOUNDS Volume: 656 Pages: 278-283 Published: JAN 25 2016
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By: Muzyka, R.; Drewniak, S.; Pustelny, T.; et al. Conference: 11th Conference on Integrated Optics - Sensors, Sensing Structures, and Methods Location: Szczyrk, POLAND Date: FEB 29-MAR 04, 2016 11TH CONFERENCE ON INTEGRATED OPTICS: SENSORS, SENSING STRUCTURES, AND METHODS Book Series: Proceedings of SPIE Volume: 10034 Article Number: UNSP 100340C Published: 2016
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By: del Corro, Elena; Kavan, Ladislav; Kalbac, Martin; et al. JOURNAL OF PHYSICAL CHEMISTRY C Volume: 119 Issue: 45 Pages: 25651-25656 Published: NOV 12 2015
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By: Brongsgeest, Merijntje S.; Bendiab, Nedjma; Mathur, Shashank; et al. NANO LETTERS Volume: 15 Issue: 8 Pages: 5098-5104 Published: AUG 2015
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By: Perez-Garza, Hector Hugo; Kievit, Eric Walter; Schneider, Gregory F.; et al. NANOTECHNOLOGY Volume: 25 Issue: 46 Article Number: 465708 Published: NOV 21 2014
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By: Bai, Ying; Zhao, Xiaoyan; Li, Tongwei; et al. CARBON Volume: 78 Pages: 70-78 Published: NOV 2014
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By: Assili, M.; Haddad, S. PHYSICAL REVIEW B Volume: 90 Issue: 12 Article Number: 125401 Published: SEP 2 2014
12. **Threefold atmospheric-pressure annealing for suppressing graphene nucleation on copper in chemical vapor deposition**
By: Suzuki, Seiya; Nagamori, Takashi; Matsuoka, Yuki; et al. JAPANESE JOURNAL OF APPLIED PHYSICS Volume: 53 Issue: 9 Article Number: 095101 Published: SEP 2014
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By: Ning, Jing; Wang, Dong; Yan, Jingdong; et al. CARBON Volume: 75 Pages: 262-270 Published: AUG 2014
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By: Garza, H. Hugo Perez; Kievit, Eric W.; Schneider, Gregory F.; et al. NANO LETTERS Volume: 14 Issue: 7 Pages: 4107-4113 Published: JUL 2014
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By: Lee, Jae-Ung; Seck, Ngor Mbaye; Yoon, Duhee; et al. CARBON Volume: 72 Pages: 257-263 Published: JUN 2014
16. **Interaction between graphene and copper substrate: The role of lattice orientation**
By: Frank, Otakar; Vejpravova, Jana; Holy, Vaclav; et al. CARBON Volume: 68 Pages: 440-451 Published: MAR 2014
17. **Nucleation and characterization of hydroxyapatite on thioglycolic acid-capped reduced graphene oxide/silver nanoparticles in simplified simulated body fluid**
By: Zhao, Jun; Zhang, Zhaochun; Yu, Zhenwei; et al. APPLIED SURFACE SCIENCE Volume: 289 Pages: 89-96 Published: JAN 15 2014
18. **Theoretical 2D Raman band of strained graphene**
By: Popov, Valentin N.; Lambin, Philippe
PHYSICAL REVIEW B Volume: 87 Issue: 15 Article Number: 155425 Published: APR 19 2013

16. Title: Theoretical polarization dependence of the two-phonon double-resonant Raman spectra of graphene

Author(s): Popov, V. N.; Lambin, P.

Source: European Physical Journal B **Volume:** 85 **Issue:** 12 **Published:** 2012 10/2

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1. [EN](#) **Raman bands of twisted bilayer graphene**

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Author(s): Popov, V. N.; Henrard, L.; Lambin, P. **Source:** Carbon **Volume:** 47 **Issue:** 10 **Pages:** 2448-2455 **Published:** 2009

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Author(s): Popov, V. N.; Lambin, P.

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Author(s): Jungen, A.; Popov, V. N.; Stampfer, C.; et al.

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