

**Technická univerzita v Košiciach**  
**Prehľad publikačnej činnosti vrátane ohlasov**  
**Autor: TÓTHOVÁ, Jana**  
**Dátum generovania výstupu: 27. 1. 2020, 11:58:35**

**Skupina A1 - Knižné publikácie charakteru vedeckej monografie (AAA, AAB, ABA, ABB, ABC, ABD)**

**Počet záznamov: 4**

AAA - Vedecké monografie vydané v zahraničných vydavateľstvách (1)

ABC - Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách (3)

**Skupina A2 - Ostatné knižné publikácie (ACA, ACB, BAA, BAB, BCB, BCI, EAI, CAA, CAB, EAJ, FAI)**

**Počet záznamov: 4**

ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách (1)

BCI - Skriptá a učebné texty (2)

FAI - Redakčné a zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky...) (1)

**Skupina B - Publikácie v karentovaných vedeckých časopisoch a autorské osvedčenia, patenty a objavy (ADC, ADD, AEG, AEH, BDC, BDD, CDC, CDD, AGJ)**

**Počet záznamov: 46**

ADC - Vedecké práce v zahraničných karentovaných časopisoch (41)

ADD - Vedecké práce v domácich karentovaných časopisoch (4)

AEG - Stručné oznámenia, abstrakty vedeckých prác v zahraničných karentovaných časopisoch (1)

**Skupina C - Ostatné recenzované publikácie (ACC, ACD, ADE, ADF, AEC, AED, AFA, AFB, AFC, AFD, AFE, AFF, AFG, AFH, BBA, BBB, BCK, BDA, BDB, BDE, BDF, BEC, BED, BFA, BFB, BGH, CDE, CDF)**

**Počet záznamov: 88**

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch (12)

ADF - Vedecké práce v domácich nekarentovaných časopisoch (7)

AFB - Publikované pozvané príspevky na domácich vedeckých konferenciách (1)

AFC - Publikované príspevky na zahraničných vedeckých konferenciách (9)

AFD - Publikované príspevky na domácich vedeckých konferenciách (55)

AFG - Abstrakty príspevkov zo zahraničných konferencií (3)

BFA - Abstrakty odborných prác zo zahraničných podujatí (konferencie...) (1)

**Skupina N - Nové kategórie EPC v zmysle Vyhlášky č. 456/2012 (ADM, ADN, AEM, AEN, BDM, BDN, CBA, CBB)**

**Počet záznamov: 1**

AEM - Abstrakty vedeckých prác v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (1)

**Skupina D - Ostatné - mimo kategórií MŠSR**

**Počet záznamov: 17**

BEE - Odborné práce v zahraničných nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)

BEF - Odborné práce v domácich nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (3)

GHG - Práce zverejnené na internete (13)

**Počet záznamov spolu: 160**

**Menný zoznam publikácií:**

**AAA - Vedecké monografie vydané v zahraničných vydavateľstvách(1)**

AAA001 [78392] **Continuum models for low-frequency dynamics of macromolecules and vesicles** / Vladimír Lisý, Jana Tóthová, Branislav Brutovský - [Brno] : Tribun EU - 2008. - 208 p. - ISBN

978-80-7399-571-3.

[LISÝ, Vladimír - TÓTHOVÁ, Jana - BRUTOVSKÝ, Branislav]

### **ABC - Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách(3)**

ABC001 [63244] **The dynamics of polymers in solution with hydrodynamic memory** / V. Lisý ... [et al.] - 2007. In: Soft Condensed Matter: New Research. - New York : Nova Science Publ., 2007 P. 35-77. - ISBN 1594546657

[LISÝ, Vladimír - TÓTHOVÁ, Jana - BRUTOVSKÝ, Branislav - ZATOVSKY, Alexander V.]

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2007 [3] KREFT, J., CHEN, Y.-L. Thermal diffusion by Brownian motion induced fluid stress In: Condensed Matter : Materials Science [online] arXiv:cond-mat/0702194 [cond-mat.mtrl-sci], (2007), p. 1-6

2008 [3] PIZZOLATO, N., FIASCONARO, A., SPAGNOLO, B. Noise effects in polymer dynamics In: Condensed Matter : Statistical Mechanics [online] arXiv:0810.1582 [cond-mat.stat-mech], (2008), p. 1-6

2007 [1] KREFT, J., CHEN, Y. Thermal diffusion by Brownian-motion-induced fluid stress In: Physical Review E - Statistical, Nonlinear, and Soft Matter Physics Vol. 76, no. 2 (2007), art. no. 021912 ISSN: 1539-3755

2008 [1] PIZZOLATO, N., FIASCONARO, A., SPAGNOLO, B. Noise effects in polymer dynamics In: International Journal of Bifurcation and Chaos Vol. 18, no. 9 (2008), p. 2871-2876 ISSN: 0218-1274

ABC002 [125875] **Unusual Brownian motion** / Jana Tóthová, Vladimír Lisý - 2012. In: Statistical Mechanics and Random Walks : Principles, Processes and Applications. - New York : Nova Science Publishers, 2012 P. 39-63. - ISBN 978-1-61470-966-4

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ABC003 [195220] **NMR measurements and all-time brownian movement with memory** / Jana Tóthová, Vladimír Lisý - 2018. In: Horizons in World Physics Volume 296. - New York : Nova Science Publishers, 2018 P. 59-104. - ISBN 978-1-53614-125-2

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### **ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách(1)**

ACB001 [165008] **Experimentálne metódy skúmania materiálov** / Oľga Fričová ... [et al.] - 1. vyd. - Košice : TU - 2015. - 78 s. [CD-ROM]. - ISBN 978-80-553-2377-0.

[FRIČOVÁ, Oľga - KLADIVOVÁ, Mária - KRAVČÁK, Jozef - TÓTHOVÁ, Jana - ZIMAN, Ján]

### **ADC - Vedecké práce v zahraničných karentovaných časopisoch(41)**

ADC001 [133284] **Kalorimetričeskoe izučenie vlijania Ca<sup>2+</sup> i Mn<sup>2+</sup> ionov na perechod spiral'-klubok v DNK** / S. Kornilova ... [et al.] - 1997. In: Biofizika. Vol. 42, no. 3 (1997), p. 599-606. - ISSN 0006-3029 [KORNILOVA, S. - JASEM, P. - GRIGORIEV, D. - KAPINOS, L. - TÓTHOVÁ, Jana - BLAGOJ, J.]

ADC002 [133282] **Kalorimetričeskoe izučenie perechoda spiral'-klubok v DNK pri vzaimodejstvii s ionami Cu<sup>2+</sup>** / S. Kornilova ... [et al.] - 1998. In: Biofizika. Vol. 43, no. 1 (1998), p. 46-52. - ISSN 0006-3029

[KORNILOVA, S. - JASEM, P. - GRIGORIEV, D. - KAPINOS, L. - TÓTHOVÁ, Jana - BLAGOJ, J. - GALKIN, V.]

ADC003 [131000] **Long-time tails in the dynamics of Rouse polymers** / J. Tóthová, V. Lisý, A. Zatovsky - 2003. In: The Journal of Chemical Physics. Vol. 119, no. 24 (2003), p. 13135-13137. - ISSN 0021-9606

[TÓTHOVÁ, Jana - LISÝ, Vladimír - ZATOVSKY, A.V.]

**Ohlasy:**

2015 [3] BOLIVAR, O.A. Non-Markovian quantum Brownian motion: a non-Hamiltonian approach In: Non-Markovian quantum Brownian motion: a non-Hamiltonian approach 203 p. ISBN: 978-3-659-69412-7

ADC004 [130788] **Long-time dynamics of Rouse-Zimm polymers in dilute solutions with hydrodynamic memory** / V. Lisý, J. Tóthová, A.V. Zátovský - 2004. In: Journal of Chemical Physics. Vol. 121, no. 21 (2004), p. 10699-10706. - ISSN 0021-9606  
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**Ohlasy:**

2007 [1] TCHESKAYA, Tatyana Yu Time domain effects in the single-chain dynamics of semidilute and concentrated polymer solutions In: Journal of Applied Crystallography Vol. 40, no. 1 (2007), p. S609-S613 ISSN: 0021-8898

2009 [1] TCHESKAYA, Tatyana Yu A generalized Zimm model: Hydrodynamic screening in polymer solutions In: Journal of Molecular Liquids Vol. 150, no. 1-3 (2009), p. 77-80 ISSN: 0167-7322

2010 [1] SEKIMOTO, K Stochastic energetics In: Lecture Notes in Physics Vol. 799 (2010), p. 1-340 ISSN: 0075-8450

2014 [1] BMMES, B., OLAFSEN, J.S. Empirically modeling polymer collapse in a poor solvent via a non-equilibrium, granular chain experiment In: Granular Matter Vol. 16, no. 2 (2014), p. 259-268 ISSN: 1434-5021

2014 [1] QIU, L. et al. Scaling and alpha-helix regulation of protein relaxation in a lipid bilayer In: Journal of Chemical Physics Vol. 141, no. 22 (2014) ISSN: 0021-9606

2015 [3] BOLIVAR, A.O. Non-Markovian quantum Brownian motion: a non-Hamiltonian approach In: Non-Markovian quantum Brownian motion: a non-Hamiltonian approach 203 p. ISBN: 978-3-659-69412-7

2017 [1] WANG, Yifu et al. Ordered self-assembly of gemini molecules in mesoporous silica channels constructing normal micelles to assist the migration of OH- In: Chemical Journal of Chinese Universities - Chinese Vol. 38, no. 1 (2017), p. 141-149 ISSN: 0251-0790

2019 [1] LEE, Julian - SEYLER, Sean L. - PRESSE, Steve Hydrodynamic interaction facilitates the unsteady transport of two neighboring vesicles In: Journal of Chemical Physics Vol. 151, no. 9 (2019), art.no. 094108 ISSN: 0021-9606

ADC005 [132552] **Refraction Index and the Kerr Effect in Droplet Microemulsions** / M. Richterová, J. Tóthová, V. Lisý - 2004. In: Laser Physics. Vol. 14, no. 12 (2004), p. 1516-1519. - ISSN 1054-660X  
[HUTNÍKOVÁ, Mária - TÓTHOVÁ, Jana - LISÝ, Vladimír]

ADC006 [132563] **Effects of hydrodynamic memory in dynamic light scattering from polymer solutions** / J. Tóthová, B. Brutovský, V. Lisý - 2004. In: Laser Physics. Vol. 14, no. 12 (2004), p. 1511-1515. - ISSN 1054-660X Spôsob prístupu: <http://www.lasphys.com/lasphys/>.  
[TÓTHOVÁ, Jana - BRUTOVSKÝ, Branislav - LISÝ, Vladimír]

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2017 [1] YUE, Chengfeng, HAN, Peng, TANG, Zhilie Liquid parameter free method for nanoparticle size determination based on dynamic light scattering In: Journal of Laser Applications Vol. 29, no. 4 (2017), p. 1-7 ISSN: 1042-346X

ADC007 [126072] **Single monomer dynamics in DNA polymers** / Jana Tóthová, Branislav Brutovský, Vladimír Lisý - 2005. In: Czechoslovak Journal of Physics. Vol. 55, no. 2 (2005), p. 221-227. - ISSN 0011-4626

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2012 [1] VALENTI, D., et al. Monte Carlo analysis of polymer translocation with deterministic and noisy electric fields In: Central European Journal of Physics Vol. 10, no. 3 (2012), p. 560 - 567 ISSN: 1895-1082

2012 [1] CHI, Qingjia, JIANG, Jiahuan A bead-spring model and mean field theory based re-calculation reveals uncertainty of Rouse-type DNA dynamics in dilute solution In: Biomedical Engineering: Application, Basis and Communications Vol. 24, no. 4 (2012), p. 355-364 ISSN: 1016-2372

2007 [1] PIZZOLATO, N., FIASCONARO, A., SPAGNOLO, B. Stochastic dynamics in polymer translocation In: Complexity, Metastability and Nonextensivity Vol. 965, no. 1 (2007), p. 181-184 ISSN: 0094-243X

2008 [3] PIZZOLATO, N., FIASCONARO, A., SPAGNOLO, B. Noise effects in polymer dynamics In: Condensed Matter : Statistical Mechanics [online] arXiv:0810.1582 [cond-mat.stat-mech], (2008), p. 1-6

2008 [3] PIZZOLATO, N., FIASCONARO, A., SPAGNOLO, B. Noise driven translocation of short polymers in crowded solutions In: Condensed Matter : Statistical Mechanics [online] arXiv:0810.1699 [cond-mat.stat-mech], (2008), p. 1-11

2013 [1] PIZZOLATO, N., et al. Translocation dynamics of a short polymer driven by an oscillating force In: The Journal of Chemical Physics Vol. 138, no. 5 (2013), p. 1-7 ISSN: 0021-9606

2008 [1] PIZZOLATO, N., FIASCONARO, A., SPAGNOLO, B. Noise effects in polymer dynamics In: International Journal of Bifurcation and Chaos Vol. 18, no. 9 (2008), p. 2871-2876 ISSN: 0218-1274

2009 [1] PIZZOLATO, N., FIASCONARO, A., SPAGNOLO, B. Noise driven translocation of short polymers in crowded solutions In: Journal of Statistical Mechanics : Theory and Experiment Vol. 2009, no. 1 (2009), art. no. P01011 ISSN: 1742-5468

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2009 [1] KALKBRENNER, T., ARNOLD, A., TANS, S. J. Internal Dynamics of Supercoiled DNA Molecules In: Biophysical Journal Vol. 96, no. 12 (2009), p. 4951-4955 ISSN: 0006-3495

ADC008 [63553] **The joint Rouse-Zimm theory of the dynamics of polymers in dilute solutions** / V. Lisy, J. Tothova, A. Zatoovsky - 2006. In: Condensed Matter Physics. Vol. 9, no. 1 (2006), p. 95-102. - ISSN 1607-324X Spôsob prístupu: <http://www.icmp.lviv.ua/journal/zbirnyk.45/011/art11.pdf>. [LISÝ, Vladimír - TÓTHOVÁ, Jana - ZATOVSKÝ, Alexander V.]

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2012 [1] ENDERLEIN, Jorg Polymer Dynamics, Fluorescence Correlation Spectroscopy, and the Limits of Optical Resolution In: Physical Review Letters Vol. 108, no. 10 (2012), art. no. 108101 ISSN: 0031-9007

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2009 [1] HINCZEWSKI, M. et al. End-Monomer Dynamics in Semiflexible Polymers In: Macromolecules Vol. 42, no. 3 (2009), p. 860-875 ISSN: 0024-9297

2008 [3] HINCZEWSKI, M. et al. End-Monomer Dynamics in Semiflexible Polymers In: Soft Condensed Matter [online] arXiv:0809.0667 [cond-mat.soft], (2008), p. 1-29

2019 [1] LIANG, Xiaobin - NAKAJIMA, Ken Investigating the Dynamic Viscoelasticity of Single Polymer Chains using Atomic Force Microscopy In: Journal of Polymer Science Part B - Polymer Physics DOI: 10.1002/24908 ISSN: 0887-6266

ADC009 [63248] **Draining and concentration effects in dynamic light scattering from nonentangled polymers in solution** / J. Tothova, B. Brutovsky, V. Lisy - 2007. In: Laser Physics. Vol. 17, no. 4 (2007), p. 443-447. - ISSN 1054-660X

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2012 [1] FINE, I., et al. A non-invasive method for the assessment of hemostasis in vivo by using dynamic light scattering In: Laser Physics Vol. 22, no. 2 (2012), p. 469-475 ISSN: 1054-660X

2012 [1] YANG, H., et al. Development of photon cross-correlation spectroscopy for the characterization of nanoparticles in concentrated suspension In: Lasers in Engineering Vol. 23, no. 5-6 (2012), p. 367-381 ISSN: 0898-1507

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2015 [1] KALWARCZYK, T., et al. Motion of nanoprobe in complex liquids within the framework of the length-scale dependent viscosity model In: Advances in Colloid and Interface Science Vol. 223 (2015), p. 55-63 ISSN: 0001-8686

ADC010 [63253] **Monomer dynamics in single- and double-stranded DNA coils** / J. Tothova, B. Brutovsky, V. Lisy - 2007. In: The European Physical Journal E - Soft Matter. Vol. 24, no. 1 (2007), p. 61-67. - ISSN 1292-8941 Spôsob prístupu:

[http://www.edpsciences.org/articles/epje/abs/2007/09/10189\\_2007\\_Article\\_7013/10189\\_2007\\_Article\\_7013.html](http://www.edpsciences.org/articles/epje/abs/2007/09/10189_2007_Article_7013/10189_2007_Article_7013.html).

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2012 [1] ENDERLEIN, J. Polymer Dynamics, Fluorescence Correlation Spectroscopy, and the Limits of Optical Resolution In: Physical Review Letters Vol. 108, no. 10 (2012), p. 108101 ISSN: 0031-9007

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2008 [1] TOPUZ, F., OKAY, O. Rheological Behavior of Responsive DNA Hydrogels In: Macromolecules Vol. 41, no. 22 (2008), p. 8847-8854 ISSN: 0024-9297

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Macromolecules Vol. 43, no. 3 (2010), p. 1530-1538 ISSN: 0024-9297

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2016 [1] WACHSMUTH, Malte - KNOCH, Tobias A - RIPPE, Karsten Dynamic properties of independent chromatin domains measured by correlation spectroscopy in living cells In: Epigenetics and Chromatin Vol 9 (2016), art.no. 57 ISSN: 1756-8935

2018 [3] MIERMANS, Christian A., BROEDERSZ, Chase P. SMC Condensin: The Motor behind Bacterial Chromosome Organization? In: arXiv.org physics arXiv:1805.03983 <https://arxiv.org/abs/1805.03983> (2018). p. 1-12

ADC011 [66436] **Simple derivation of the first cumulant for the Rouse chain** : First cumulant for Rouse polymers / Vladimír Lisý, Branislav Brutovský, Jana Tóthová - 2007. In: e-Polymers. No. 149 (2007), 4 p. - ISSN 1618-7229 Spôsob prístupu: <http://www.e-polymers.org>. [LISÝ, Vladimír - BRUTOVSKÝ, Branislav - TÓTHOVÁ, Jana]

ADC012 [68965] **The effects of hydrodynamic noise on the diffusion of polymers in dilute solutions** / V. Lisý, J. Tóthová, A. V. ZatoVsky - 2008. In: Journal of Statistical Mechanics: Theory and Experiment. Vol. 5, no. 1 (2008), 12 p. - ISSN 1742-5468 Spôsob prístupu: <http://www.iop.org/EJ/abstract/1742-5468/2008/01/P01024>. [LISÝ, Vladimír - TÓTHOVÁ, Jana - ZATOVSKY, Alexander V.]

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2012 [1] FARAGO, J., et al. Mode-coupling approach to polymer diffusion in an unentangled melt. II. The effect of viscoelastic hydrodynamic interactions In: Physical Review E Vol. 85, no. 5 (2012), p. 051807 ISSN: 1539-3755

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ADC013 [106498] **Hydrodynamic memory in the motion of charged brownian particles across the magnetic field** / J. Tóthová, V. Lisý - 2010. In: Acta Physica Polonica A. Vol. 118, no. 5 (2010), p. 1051 - 1053. - ISSN 0587-4246 Spôsob prístupu: <http://przyrbwn.icm.edu.pl/APP/SPIS/a118-5.html>. [TÓTHOVÁ, Jana - LISÝ, Vladimír]

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2017 [3] BARTOLOME, Martin Francis D. - ESGUERRA, Jose Perico H. Brownian motion of a charged particle driven by colored noise in crossed external electric and magnetic fields In: Proceedings of the Samahang Pisika ng Pilipinas : 36th Samahang Pisika ng Pilipinas Physics Conference and Annual Meeting : Cebu City, 7-10 June, 2017 P. 1-4

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ADC014 [106499] **Dynamical structure factors of quasi-one-dimensional magnets of the type of**

**CsNiF<sub>3</sub>** / V. Lisý, J. Tóthová - 2010. In: Acta Physica Polonica A. Vol. 118, no. 5 (2010), p. 953 - 954. - ISSN 0587-4246 Spôsob prístupu: <http://przyrbwn.icm.edu.pl/APP/SPIS/a118-5.html>.  
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2012 [1] TKÁČ, V. et al. Experimental Study of the Thermal Transport in CsNiF<sub>3</sub> - An S = 1 Quantum Chain In: Acta Physica Polonica A Vol. 121, no. 5-6 (2012), p. 1098-1101 ISSN: 0587-4246

ADC015 [108037] **Langevin theory of anomalous Brownian motion made simple** / Jana Tóthová ... [et al.] - 2011. In: European Journal of Physics. Vol. 32, no. 3 (2011), p. 645-655. - ISSN 0143-0807 Spôsob prístupu: [stacks.iop.org/EJP/32/645](https://stacks.iop.org/EJP/32/645); <http://iopscience.iop.org/0143-0807/32/3/002>.  
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2015 [3] BOLIVAR, O. A. Non-Markovian quantum Brownian motion: a non-Hamiltonian approach In: Non-Markovian quantum Brownian motion: a non-Hamiltonian approach 203 p. ISBN: 978-3-659-69412-7

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ADC016 [113253] **A note on 'Langevin theory of anomalous Brownian motion made simple'** / Jana Tóthová ... [et al.] - 2011. In: European Journal of Physics. Vol. 32, no. 6 (2011), p. L47 - L49. - ISSN 0143-0807 Spôsob prístupu: <http://iopscience.iop.org/0143-0807/32/6/L04>.  
[TÓTHOVÁ, Jana - VASZIOVÁ, Gabriela - LUKÁŠ, Glod - LISÝ, Vladimír]

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