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Pozícia na projekte	Vedecko-výskumný pracovník
Vedecké identifikátory	WoS (Researcher ID): DZC-9730-2022, Scopus (AuthorID): 8890930300, ORCID: 0000-0002-5381-2905
Vedecké zameranie	charakteristika chemického zloženia a štruktúry materiálov
Publikačná činnosť s ohlasmí (aktuálne k 31.10.2022)	
V2 Vedecký výstup publikačnej činnosti ako časť editovanej knihy alebo zborníka	
V2_01	JURKOVIČOVÁ, Michaela - SKARBA, Michal - HALANDA, Juraj - VAŇA, Dušan - NOGA, Pavol. Plasma immersion ion implantation induced surface patterning. In <i>Applied Nuclear Physics Conference 2021 : September 12-16, Prague, Czech Republic</i> . 1. vyd. Praha : AMCA, 2021, S. 88. Typ výstupu: abstrakt z podujatia; Výstup: zahraničný; Kategória publikácie do 2021: AFG
V2_02	SKARBA, Michal. Superconductors make life cleaner, faster and healthier. Science with no resistance. In <i>Bulletin vedeckých príspevkov : Bulletin vedeckých príspevkov z projektu Vedeckovýskumné centrum excelentnosti Slovákion pre materiálový a interdisciplinárny výskum</i> . 1. vyd. Bratislava : Spektrum, 2022, S. 54-59. ISBN 978-80-227-5220-6. Typ výstupu: príspevok; Výstup: domáci; Kategória publikácie do 2021: AED
V3 Vedecký výstup publikačnej činnosti z časopisu	
V3_01	CUNINKOVÁ, Eva - PEKARČIKOVÁ, Marcela - SKARBA, Michal - KRAJČOVIČ, Jozef - PAŠÁK, Matej. Experimental and Numerical Analysis of High-Temperature Superconducting Tapes Modified by Composite Thermal Stabilization Subjected to Thermomechanical Loading. In <i>Materials [elektronický zdroj]</i> . Vol. 14, iss. 13 (2021), s. 1-18. ISSN 1996-1944 (2021: 3.748 - IF, Q1 - JCR Best Q, 0.604 - SJR, Q2 - SJR Best Q). V databáze: DOI: 10.3390/ma14133579 ; SCOPUS: 2-s2.0-85109329044 ; WOS: 000671075200001 ; CC: 000671075200001. Typ výstupu: článok; Výstup: zahraničný; Kategória publikácie do 2021: ADC
V3_02	CUNINKOVÁ, Eva - PEKARČIKOVÁ, Marcela - MOŠAŤ, Marek - SKARBA, Michal. Numerical simulation of thermal stabilization used in HTS tapes for SCFCL application. In <i>IEEE Transactions on Applied Superconductivity</i> . Vol. 32, iss. 4 (2022), s. 1-5. ISSN 1051-8223 (2021: 1.949 - IF, Q3 - JCR Best Q, 0.443 - SJR, Q2 - SJR Best Q). V databáze: DOI: 10.1109/TASC.2022.3148694 ; SCOPUS: 2-s2.0-85124732803 ; WOS: 000766663800012 ; CC: 000766663800012. Typ výstupu: článok; Výstup: zahraničný; Kategória publikácie do 2021: ADC
V3_03	GÖMÖRY, Fedor - ŠOUC, Ján, Ing - PARDO, Enric - SEILER, Eugen - SOLOVIOV, Mykola - FROLEK, Ľubomír - SKARBA, Michal - KONOPKA, Pavol - PEKARČIKOVÁ, Marcela - JANOVEC, Jozef. AC Loss in Pancake Coil Made From 12 mm Wide REBCO Tape. In <i>IEEE Transactions on Applied Superconductivity</i> . Vol. 23, Iss. 3 (2013), s.[6] p. ISSN 1051-8223 (2013: 1.324 - IF, Q2 - JCR Best Q, 0.460 - SJR, Q2 - SJR Best Q). V databáze: WOS ; IEEE ; SCOPUS. Kategória publikácie do 2021: ADC Ohlasy: 1. [1] PARK, J. - KIM, S. - PARK, I. - JEONG, S. Experimental investigation of AC loss in a conduction-cooled layer-wound (RE)BCO magnet for continuous Adiabatic Demagnetization Refrigerator (ADR). In <i>Cryogenics</i> , 2014, vol. 63, s.77-84., Registrované v: CC Ohlas: zahraničný 2. [1] PITEL, J. Differences between two definitions of the critical current of HTS coils. In <i>Superconductor Science and Technology</i> , 2013, vol. 26, iss. 12, s.Art. No. 125002. Ohlas: zahraničný 3. [1] BRAMBILLA, Roberto - GRILLI, Francesco. Critical state solution of a cable made of curved thin superconducting tapes. In <i>Superconductor Science and Technology</i> . ISSN 0953-2048, 2014, 27, 12, pp., Registrované v: CC Ohlas: zahraničný 4. [1] Kruger, Philipp A C - Zermeno, V. M R - Takayasu, Makoto - Grilli, Francesco. Three-dimensional numerical simulations of twisted stacked tape cables. In <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 3, pp. ISSN 1051-8223., Registrované v: SCOPUS,

WOS, CC

Ohlas: zahraničný

5. [1] Awaji, Satoshi - Kajikawa, K. - Watanabe, Kazuo - Oguro, Hidetoshi - Mitose, T. - Fujita, S. - Daibo, Masanori - Iijima, Y. - Miyazaki, Hiroshi - Takahashi, Masaya - Ioka, Shigeru. AC losses of an HTS insert in a 25-T cryogen-free superconducting magnet. In IEEE Transactions on Applied Superconductivity, 2015, 25, 3, pp. ISSN 1051-8223., Registrované v: SCOPUS

Ohlas: zahraničný

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Ohlas: zahraničný

7. [1] Hu, Di - Ainslie, Mark Douglas - Zou, Jin - Cardwell, David A. Numerical analysis of non-uniformities and anisotropy in high-temperature superconducting coils. In IEEE Transactions on Applied Superconductivity, 2015, 25, 3, pp. ISSN 1051-8223., Registrované v: SCOPUS

Ohlas: zahraničný

8. [1] HU, D. - Ainslie, M. D. - Rush, J. P. - Durrell, J. H. - Zou, J. - Raine, M. J. - Hampshire, D. P. DC characterization and 3D modelling of a triangular, epoxy-impregnated high temperature superconducting coil. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY, 2015, vol. 28, no. 6, pp. ISSN 0953-2048., Registrované v: SCOPUS, CC, WOS

Ohlas: zahraničný

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Ohlas: zahraničný

10. [1] ZHANG, Yan - Song, Yuntao - Wang, Lei - Liu, Xufeng. Simulation of superconducting tapes and coils with convex quadratic programming method. In SUPERCONDUCTOR SCIENCE & TECHNOLOGY, 2015, vol. 28, no. 8, pp. ISSN 0953-2048., Registrované v: CC, SCOPUS, WOS

Ohlas: zahraničný

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Ohlas: zahraničný

12. [1] JIANG, Zhenan - LONG, Nicholas J. - STAINES, Mike - BADCOCK, Rodney A. - BUMBY, Chris W. - BUCKLEY, Robert G. - AMEMIYA, Naoyuki. AC loss measurements in HTS coil assemblies with hybrid coil structures. In Superconductor Science and Technology, 2016, 29, 9, pp. ISSN 0953-2048., Registrované v: WOS, CC, SCOPUS

Ohlas: zahraničný

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Ohlas: zahraničný

14. [1] JIANG, Zhenan - STAINES, Mike - LONG, Nicholas J. - BADCOCK, Rodney A. - BUMBY, Chris W. - BUCKLEY, Robert G. - SONG, W. - AMEMIYA, Naoyuki. AC Loss Measurements in a Hybrid REBCO/BSCCO Coil Assembly. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, 2017, vol. 27, no. 6, pp. ISSN 1051-8223., Registrované v: SCOPUS, CC, WOS

Ohlas: zahraničný

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Ohlas: zahraničný

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Ohlas: zahraničný

17. [1] AINSLIE, Mark D. - BUMBY, Chris W. - JIANG, Zhenan - TOYOMOTO, Ryuki - AMEMIYA, Naoyuki. Numerical modelling of dynamic resistance in high-temperature superconducting coated-conductor wires. In *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*, 2018, vol. 31, no. 7, pp. ISSN 0953-2048., Registrované v: CC, WOS, SCOPUS

Ohlas: zahraničný

18. [1] OGAWA, Jun - FUKUI, Satoshi - YOSHINO, Kouki - SUZUKI, Yushi - TORIGATA, Syunsuke. Development of an HTS Capacitor Using Bi2223/Ag Tapes as Electrodes. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*, 2019, vol. 29, no. 5, pp. ISSN 1051-8223., Registrované v: WOS, CC, SCOPUS

Ohlas: zahraničný

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Ohlas: zahraničný

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Ohlas: zahraničný

21. [1] YANG, Yu - YONG, Huadong - ZHANG, Xingyi - ZHOU, Youhe. Numerical Simulation of Superconducting Generator Based on the T-A Formulation. In *IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY*, 2020, vol. 30, no. 8, pp. ISSN 1051-8223., Registrované v: WOS, CC, SCOPUS

Ohlas: zahraničný

22. [1] ZHANG, Hongye - WEN, Zezhao - GRILLI, Francesco - GYFTAKIS, Konstantinos - MUELLER, Markus. Alternating Current Loss of Superconductors Applied to Superconducting Electrical Machines. In *ENERGIES*, 2021, vol. 14, no. 8, pp., Registrované v: WOS, CC, SCOPUS

Ohlas: zahraničný

23. [1] INANIR, Fedai - TERZIOGLU, Rifki. AC Loss Evaluation of a Superconducting Pancake Coil with Coated Conductors using an Extended A-V Formulation. In *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*, 2021, vol. 587, no., pp. ISSN 0921-4534., Registrované v: WOS, CC, SCOPUS

Ohlas: zahraničný

24. [1] OLIVEIRA, Roberto - MURTA-PINA, Joao - VEGA, Maria - ALVAREZ, Alfredo - VALTCHEV, Stanimir - PRONTO, Anabela - SUAREZ, Pilar. Effects of Noncharacteristic Harmonics on AC Losses of High-Temperature Superconducting Coils. In *IEEE Transactions on Power Electronics*, 2021, 36, 12, pp. 13697-13705. ISSN 08858993., Registrované v: SCOPUS, WOS, CC

Ohlas: zahraničný

V3_04 MICHALCOVÁ, Eva - GÖMÖRY, Fedor - FROLEK, Ľubomír - DRIENOVSKÝ, Marián - PEKARČÍKOVÁ, Marcela - SKARBA, Michal - MIŠÍK, Jozef - JANOVEC, Jozef. Joining of CC Tapes With Lead-Free Solders. In *IEEE Transactions on Applied Superconductivity*. Vol. 26, iss. 3 (2016), Article 8801104. ISSN 1051-8223 (2016: 1.583 - IF, Q3 - JCR Best Q, 0.398 - SJR, Q2 - SJR Best Q). V databáze: DOI: 10.1109/TASC.2016.2539419 ; WOS: CCC:000376186400001 ; SCOPUS ; MLJ.

Kategória publikácie do 2021: ADC

Ohlasy:

1. [1] PAN, Yunhao - WU, Wei - ZHEN, Shuilang - DONG, Fangliang - WANG, Longbiao - CHU, Jingyuan - WANG, Mingyang - HONG, Zhiyong - JIN, Zhijian. Investigation on Current

Distribution and Joint Resistance-Overlap Length Relationship for Non-Superconducting Joints. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, 2019, vol. 29, no. 2, pp. ISSN 1051-8223., Registrované v: WOS, CC, SCOPUS

Ohlas: zahraničný

2. [1] YANG GANSONG - WANG WENTAO - LIU LIAN - WANG MINGJIANG - TIAN ZHENGJIAN - ZHENG QIUTONG - ZHAO YONG. Electromechanical Properties of Lapped Joints of Y0.5Gd0.5Ba2Cu3O7-z Coated Conductors Joined with Lead-free Solders. In RARE METAL MATERIALS AND ENGINEERING, 2021, vol. 50, no. 2, pp. 511-518. ISSN 1002-185X., Registrované v: WOS, SCOPUS

Ohlas: zahraničný

3. [1] YANG, Chia Ming - CHANG, Yu Chuan - CHANG, Chi Lei - CHEN, In Gann. Sintering Nano-Silver Paste by Resistive Joule Heating Process for 2G HTS Tape Joints. In Materials, 2022-02-01, 15, 4, pp., Registrované v: SCOPUS, WOS, CC

Ohlas: zahraničný

V3_05 MICHALCOVÁ, Eva - BEHÚLOVÁ, Mária - VOJENČIAK, Michal - FROLEK, Ľubomír - ŠOUC, Ján, Ing - SKARBA, Michal - PEKARČÍKOVÁ, Marcela - DRIENOVSKÝ, Marián - GÖMÖRY, Fedor. Structural modeling of REBCO coated conductor tapes in TORT cables. In *IEEE Transactions on Applied Superconductivity*. Vol. 28, iss. 4 (2018), [5]s. ISSN 1051-8223 (2018: 1.692 - IF, Q3 - JCR Best Q, 0.406 - SJR, Q2 - SJR Best Q). V databáze: SCOPUS ; WOS ; CC: 000427233600001 ; MLJ. Kategória publikácie do 2021: ADC

Ohlasy:

1. [1] SHIN, Hyung Seop - DIAZ, Mark A. - VELASCO, Madelene - AWAJI, Satoshi. Performance Evaluation of Practical REBCO Coated Conductor Tapes for Superconducting Wind Power Coils. In *IEEE Transactions on Applied Superconductivity*, 2020, 30, 4, pp. ISSN 10518223., Registrované v: SCOPUS, WOS, CC

Ohlas: zahraničný

V3_06 MIŠÍK, Jozef - GÖMÖRY, Fedor - VÁVRA, Ivo - SOLOVIOV, Mykola - VOJENČIAK, Michal - GIRMAN, Vladimír - SKARBA, Michal - PEKARČÍKOVÁ, Marcela - MICHALCOVÁ, Eva - JANOVEC, Jozef. Structural study of commercially produced (RE)BCO films. In *IEEE Transactions on Applied Superconductivity*. Vol. 26, iss. 3 (2016), s. 804-804. ISSN 1051-8223 (2016: 1.583 - IF, Q3 - JCR Best Q, 0.398 - SJR, Q2 - SJR Best Q). V databáze: WOS: CCC:000372745800001 ; SCOPUS ; MLJ: DOI: 10.1109/TASC.2016.2516348.

Kategória publikácie do 2021: ADC

V3_07 PEKARČÍKOVÁ, Marcela - SKARBA, Michal - KONOPKA, Pavol - JANOVEC, Jozef - SOLOVYOV, M. - PARDO, Enric - GÖMÖRY, Fedor. Investigation of defects in functional layer of high temperature superconducting tapes. In *Physica C-Superconductivity and its Applications*. Vol. 497 (2014), s. 24-29. ISSN 0921-4534 (2014: 0.942 - IF, Q4 - JCR Best Q, 0.501 - SJR, Q2 - SJR Best Q). V databáze: WOS ; SCOPUS.

Kategória publikácie do 2021: ADC

Ohlasy:

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Ohlas: zahraničný

2. [1] JIANG, Rongrong - LI, Ming - YAO, Yirong - GUAN, Jianmin - LU, Huanming. Application of BIB polishing technology in cross-section preparation of porous, layered and powder materials: A review. In *Frontiers of Materials Science*, 2019, 13, 2, pp. 107-125. ISSN 2095025X., Registrované v: SCOPUS, WOS, CC

Ohlas: zahraničný

V3_08 PEKARČÍKOVÁ, Marcela - MICHALCOVÁ, Eva - FROLEK, Ľubomír - SOUC, Jan - GOGOLA, Peter - DRIENOVSKÝ, Marián - SKARBA, Michal - MIŠÍK, Jozef - GÖMÖRY, Fedor. Effect of Mechanical

Loading on Coated Conductor Tapes Due to Winding Onto Round Cables. In *IEEE Transactions on Applied Superconductivity*. Vol. 28, iss. 4 (2018), s. 505-505. ISSN 1051-8223 (2018: 1.692 - IF, Q3 - JCR Best Q, 0.406 - SJR, Q2 - SJR Best Q). V databáze: CC: 000424686900001 ; WOS ; SCOPUS ; DOI: 10.1109/TASC.2018.2795894.

Kategória publikácie do 2021: ADC

Ohlasy:

1. [1] JIN, H. - QIN, J. G. - ZHOU, C. - LIU, H. J. - LIU, F. - GAO, P. - XIAO, G. Y. - MA, H. J. - LI, J. G. - WU, Y. - JIANG, D. H. - WU, K. H. - MA, T. - TAN, Y. F. - LI, J. J. The performance of first CORC cable solenoid insert for development of CFETR high-field magnet. In *NUCLEAR FUSION*, 2020, vol. 60, no. 9, pp. ISSN 0029-5515., Registrované v: WOS, CC, SCOPUS

Ohlas: zahraničný

2. [1] YIN, Hongna - HUANG, Xingyuan - LIU, Tongke - SONG, Minjie. Effects of gas-assisted extrusion on slip in the cable coating process. In *Journal of Polymer Engineering*, 2021, 41, 4, pp. 329-337. ISSN 03346447., Registrované v: SCOPUS, WOS, CC

Ohlas: zahraničný

3. [1] GAO, Peifeng - GENG, Xin - MAN, Guian - WANG, Xingzhe. Measurement of Shear Delamination Strength of REBCO Coated Conductors. In *IEEE Transactions on Applied Superconductivity*, 2022-06-01, 32, 4, pp. ISSN 10518223., Registrované v: SCOPUS, WOS, CC

Ohlas: zahraničný

4. [1] SHI, Yangyang - DAI, Shaotao - MA, Tao - LIU, Wenxu. Effect of Bending Strain on the Current-Carrying Performance of Copper-Laminated REBCO Tape. In *Journal of Superconductivity and Novel Magnetism*, 2022-03-01, 35, 3, pp. 647-655. ISSN 15571939., Registrované v: SCOPUS, WOS, CC

Ohlas: zahraničný

V3_09 PEKARČÍKOVÁ, Marcela - MIŠÍK, Jozef - DRIENOVSKÝ, Marián - KRAJČOVIČ, Jozef - VOJENČIAK, Michal - BÚRAN, Marek - MOŠAŤ, Marek - HÚLAN, Tomáš - SKARBA, Michal - CUNINKOVÁ, Eva - GÖMÖRY, Fedor. Composite heat sink material for superconducting tape in fault current limiter applications. In *Materials [elektronický zdroj]*. Vol. 13, iss. 8 (2020), s.1-16. ISSN 1996-1944 (2020: 3.623 - IF, Q1 - JCR Best Q, 0.682 - SJR, Q2 - SJR Best Q). V databáze: SCOPUS: 2-s2.0-85084546138 ; DOI: 10.3390/MA13081832 ; WOS: 000531829000036 ; CC: 000531829000036.

Kategória publikácie do 2021: ADC

Ohlasy:

1. [1] MORA, Mario - AMAVEDA, Hippolyte - PORTA-VELILLA, Luis - DE LA FUENTE, Germán F. - MARTÍNEZ, Elena - ANGUREL, Luis A. Improved copper–epoxy adhesion by laser micro- and nano-structuring of copper surface for thermal applications. In *Polymers*, 2021, 13, 11, pp., Registrované v: SCOPUS, WOS, CC

Ohlas: zahraničný

V3_10 SKARBA, Michal - PEKARČÍKOVÁ, Marcela - KONOPKA, Pavol - MIŠÍK, Jozef - CUNINKOVÁ, Eva. Structural analysis of superconductors at MTF: A review. In *Vedecké práce MTF STU v Bratislave so sídlom v Trnave. Research papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava*. Vol. 26, no. 43 (2018), s. 55-62. ISSN 1336-1589. V databáze: INSPEC ; DOI: 10.2478/rput-2018-0030.

Kategória publikácie do 2021: ADF

V3_11 SKARBA, Michal - PEKARČÍKOVÁ, Marcela - FROLEK, Ľubomír - CUNINKOVÁ, Eva - NECPAL, Martin. Thermal Cycling of (RE)BCO-Based Superconducting Tapes Joined by Lead-Free Solders. In *Materials [elektronický zdroj]*. Vol. 14, iss. 4 (2021), s. 1-23. ISSN 1996-1944 (2021: 3.748 - IF, Q1 - JCR Best Q, 0.604 - SJR, Q2 - SJR Best Q). V databáze: DOI: 10.3390/ma14041052 ; SCOPUS: 2-s2.0-85102056199 ; WOS: 000624121600001 ; CC: 000624121600001.

Typ výstupu: článok; Výstup: zahraničný; Kategória publikácie do 2021: ADC

Ohlasy:

1. [1] YANG, Chia Ming - CHANG, Yu Chuan - CHANG, Chi Lei - CHEN, In Gann. Sintering Nano-Silver Paste by Resistive Joule Heating Process for 2G HTS Tape Joints. In *Materials*, 2022-02-01, 15, 4, pp., Registrované v: SCOPUS, WOS, CC

Ohlas: zahraničný

V3_12

SOLOVYOV, M. - PARDO, Enric - ŠOUC, Ján, Ing - GÖMÖRY, Fedor - SKARBA, Michal - KONOPKA, Pavol - PEKARČÍKOVÁ, Marcela - JANOVEC, Jozef. Non-uniformity of coated conductor tapes. In *Superconductor Science and Technology*. Vol. 26, Iss. 11 (2013), s.Art.no. 115013, [10] p. ISSN 0953-2048 (2013: 2.796 - IF, Q1 - JCR Best Q, 1.318 - SJR, Q1 - SJR Best Q). V databáze: SCOPUS ; WOS.

Kategória publikácie do 2021: ADC

Ohlasy:

1. [1] LI, Shuo - CHEN, Duxing - FAN, Yu - FANG, Jin. Transport ac loss in a rectangular thin strip with power-law $e(J)$ relation. In *Physica C: Superconductivity and its Applications*. ISSN 0921-4534, 2015, 508, pp. 12-16., Registrované v: SCOPUS

Ohlas: zahraničný

2. [1] BRAMBILLA, Roberto - GRILLI, Francesco. Critical state solution of a cable made of curved thin superconducting tapes. In *Superconductor Science and Technology*. ISSN 09532048, 2014-12-01, 27, 12, pp., Registrované v: CC, WOS, SCOPUS

Ohlas: zahraničný

3. [1] BORROTO, A. - Del Rio, L. - Arronte, M. - Johansen, T. H. - Altshuler, E. Modeling transport properties of inhomogeneous superconductor-metal composites. In *APPLIED PHYSICS LETTERS*, 2014, vol. 105, no. 20, pp. ISSN 0003-6951., Registrované v: CC

Ohlas: zahraničný

4. [1] Demenci-k, Eduard - Grilli, Francesco - Kario, Anna Urszula - Nast, Rainer - Jung, Alexandra - Vojenciak, Michal - Scheiter, Juliane - Goldacker, Wilfried. AC magnetization loss and transverse resistivity of striated YBCO coated conductors. In *IEEE Transactions on Applied Superconductivity*, 2015, 25, 3, pp. ISSN 1051-8223., Registrované v: SCOPUS, WOS, CC

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Ohlas: zahraničný

V3_14

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Ohlas: zahraničný

V3_15

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V3_16

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V3_17

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