Riešiteľ	**DUBECKÝ Matúš**
Pozícia na projekte	Vedecko-výskumný pracovník
Vedecké identifikátory	**WoS (Researcher ID):** P-1720-2016**, Scopus (AuthorID):** 56358387500**, ORCID:** 0000-0002-3975-1106
Vedecké zameranie	počítačové modelovania elektrónovej štruktúry komplexných materiálov z prvých princípov (kvantové Monte Carlo)

Publikačná činnosť s ohlasmi (aktuálne k 31.10.2022)

V3 Vedecký výstup publikačnej činnosti z časopisu

V3_01 DITTE, Matej - DUBECKÝ, Matúš. Fractional charge by fixed-node diffusion Monte Carlo method. In *Physical Review Letters*. Vol. 123, (2019), s. 1-6. ISSN 0031-9007 (2019: 8.385 - IF, Q1 - JCR Best Q, 3.588 - SJR, Q1 - SJR Best Q). V databáze: DOI: 10.1103/PhysRevLett.123.156402 ; WOS: 000489255900008 ; CC: 000489255900008 ; SCOPUS: 2-s2.0-85073445890.
Kategória publikácie do 2021: ADC

V3_02 DUBECKÝ, František - DUBECKÝ, Matúš - HUBÍK, Pavel - KINDL, D. - GOMBIA, Enos - BALDINI, M. - NEČAS, Vladimír. Unexpected Current Lowering by a Low Work-Function Metal Contact: Mg/SI-GaAs. In *Solid-State Electronics*. Vol. 82 (2013), s.72-76. ISSN 0038-1101 (2013: 1.514 - IF, Q2 - JCR Best Q, 0.770 - SJR, Q1 - SJR Best Q).
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V3_03 DUBECKÝ, František - OSWALD, Jiří - KINDL, Dobroslav - HUBÍK, Pavel - DUBECKÝ, Matúš - GOMBIA, Enos - ŠAGÁTOVÁ, Andrea - BOHÁČEK, Pavol - SEKÁČOVÁ, Mária - NEČAS, Vladimír. Photocurrent spectra of semi-insulating GaAs M-S-M diodes: Role of the contacts. In *Solid-State Electronics*. Vol. 118, (2016), s. 30-35. ISSN 0038-1101 (2016: 1.580 - IF, Q3 - JCR Best Q, 0.544 - SJR, Q2 - SJR Best Q). V databáze: CC: 000369831300006.
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Ohlas: zahraničný

V3_09 FANTA, Roman - KOLESÁR, Vladimír - ŠIMUNEK, Ján - DUBECKÝ, Matúš. Benchmarking lattice energy of a model 1D molecular HF crystal. In *Theoretical Chemistry Accounts*. Vol. 139, iss. 5, (2020), s. 1-4. ISSN 1432-881X (2020: 1.702 - IF, Q4 - JCR Best Q, 0.431 - SJR, Q3 - SJR Best Q). V databáze: DOI: 10.1007/s00214-020-02601-3 ; SCOPUS: 2-s2.0-85083980583 ; WOS: 000529680000001 ; CC: 000529680000001.
Kategória publikácie do 2021: ADC

V3_10 FANTA, Roman - DUBECKÝ, Matúš. Noncovalent Interactions by the Quantum Monte Carlo Method: Strong Influence of Isotropic Jastrow Cutoff Radii. In *Journal of chemical theory and computation*. Vol. 17, iss. 7 (2021), s.4242-4249. ISSN 1549-9618 (2021: 6.578 - IF, Q1 - JCR Best Q, 1.619 - SJR, Q1 - SJR Best Q). V databáze: DOI: 10.1021/acs.jctc.1c00467 ; SCOPUS: 2-s2.0-85110355430 ; WOS: 000674289800033 ; CC: 000674289800033.
Typ výstupu: článok; Výstup: zahraničný; Kategória publikácie do 2021: ADC
Ohlasy:
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Ohlas: zahraničný

V3_11 ŠULKA, Martin - DUBECKÝ, Matúš. Fragmentation of natural orbital occupation numbers-based diagnostic of differential multireference character in complexes with hydrogen bonds. In *Journal of Computational Chemistry*. Vol. 42, iss. 7 (2021), s. 475-483. ISSN 0192-8651 (2021: 3.672 - IF, Q2 - JCR Best Q, 0.778 - SJR, Q1 - SJR Best Q). V databáze: DOI: 10.1002/jcc.26470 ; SCOPUS: 2-s2.0-85097564119 ; WOS: 000598674400001 ; CC: 000612509100002.
Typ výstupu: článok; Výstup: zahraničný; Kategória publikácie do 2021: ADC

I2 Iný výstup publikačnej činnosti ako časť publikácie alebo zborníka

I2_01 ŠULKA, Martin - ŠULKOVÁ, Katarína - DUBECKÝ, Matúš. Assessing the accuracy of quantum Monte Carlo in hydrogen-bonded and strongly correlated systems. In *CESTC 2022 : 18th Central European Symposium on Theoretical Chemistry 2022, 7-10 September 2022, Balatonszárszó, Hungary*. 1. vyd. Budapešť : Hungarian Chemical Society, 2022, S. 90. ISBN 978-615-6018-10-6.
Typ výstupu: časti, ktoré nemožno zaradiť do kategórie V, O, P, U alebo D; Výstup: zahraničný; Kategória publikácie do 2021: AFK

XXX XXX

_01 DUBECKÝ, František - KOVÁČ, Jaroslav - MUDROŇ, Ján - HUBÍK, Pavel - DUBECKÝ, Matúš - GOMBIA, Enos. Photocurrent Spectroscopy of Semi-Insulating GaAs with a New Contact Metallization: Indication of 2DEG Formed at the M-S Interface. In *APCOM 2010. Applied Physics of Condensed Matter : Proceedings of the 16th International Conference. Malá Lučivná, Slovak Republic, 16.-18.6.2010*. Bratislava : Nakladateľstvo STU, 2010, s.29-32. ISBN 978-80-227-3307-6.
Kategória publikácie do 2021: AFD

_02 DUBECKÝ, František - DUBECKÝ, Matúš - MIČUŠÍK, M. - HUBÍK, Pavel - KINDL, D. - GOMBIA, Enos - ŠAGÁTOVÁ, Andrea - NEČAS, Vladimír. M/SI-GaAs/M Devices: Contact Chemistry and Electronic Transport. In *8th Solid State Surfaces and Interfaces : Extended Abstract Book. Smolenice Castle, Slovak Republic, November 25-28, 2013*. Bratislava : Comenius University, 2013, s.42. ISBN 978-80-223-3501-0.
Kategória publikácie do 2021: AFH

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Štatistika: kategória publikačnej činnosti do 2021

I2	I2	1
V3	V3	11
XXX	Nezaradené	26
Súčet		**38**

Štatistika: kategória ohlasov

1	Citácie v zahraničných publikáciách, registrované v citačných indexoch Web of Science a databáze SCOPUS	475
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Súčet		**482**