10. б) Списък на публикациите, представени за участие в конкурса на Александър Алексиев Стефанов

Публикации по показател В4: Хабилитационен труд - научни публикации в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus)

Статии в научни списания:

1. *V.S. Gerdjikov, A.A. Stefanov, I.D. Iliev, G.P. Boyadjiev, A.O. Smirnov, V.B. Matveev, M.V. Pavlov*, **Recursion operators and hierarchies of mKdV equations related to the Kac–Moody algebras $D_4^{(1)}$, $D_4^{(2)}$, and $D_4^{(3)}$**, Theoretical and Mathematical Physics, vol:204, 2020, pages:1110-1129, ISSN (print):1573-9333, ISSN (online):0040-5779, doi:https://doi.org/10.1134/S0040577920090020, Ref, Web of Science, IF (0.854 - 2019), Web of Science Quartile: Q3 (2020), SCOPUS, SJR (0.299 - 2019), SCOPUS Quartile: **Q3** (2020), International

2. *V.S. Gerdjikov, R.I. Ivanov, A.A. Stefanov*, **Riemann-Hilbert problem, integrability and reductions**, Journal of Geometric Mechanics, vol:11, issue:2, 2019, pages:167-185, ISSN (print):1941-4889, ISSN (online):1941-4897, doi:10.3934/jgm.2019009, Ref, Web of Science, IF (0.649 - 2019), SCOPUS, SJR (0.38 - 2018), SCOPUS Quartile: **Q3** (Applied Mathematics), International

Статии в сборници от конференции:

1. *Aleksander Stefanov, Ivan Chavdarov, Dimitar Nedanovski*, **Detailed dynamical model of a simple 3D printed walking robot**, AIP Conference Proceedings 2321, editor/s:A. Slavova, Publisher:AIP Publishing, 2021, pages:30031-0, ISSN (print):0094-243X, ISSN (online):1551-7616, ISBN:978-0-7354-4065-4, doi:https://doi.org/10.1063/5.0040125, Ref, IR , SCOPUS, **SJR** (0.19 - 2019)

2. *Aleksander Stefanov, Ivan Chavdarov, Dimitar Nedanovski, George Boiadjhiev*, **Dynamics and Control of a 3D Printed Walking Robot**, 27th International Conference on Software, Telecommunications and Computer Networks, SoftCOM 2019 , Publisher:IEEE, 2019, pages:1-5, ISSN (online):1847-358X, doi:10.23919/SOFTCOM.2019.8903684, Ref, SCOPUS, **SJR** (0.14 - 2020)

3. *V.S. Gerdjikov, A.A. Stefanov*, **On An Example Of Derivative Nonlinear Schrodinger Equation With D_2 Reduction**, Pliska Studia Mathematica 30 - Proceedings of the Fifth International conference New Trends of the Applications of Differential Equations in Sciences (NTADES 2018) , editor/s:A. Slavova, Publisher: Institute of Mathematics and Informatics,

Bulgarian Academy of Sciences, 2019, pages:99-108, ISSN (online):0204-9805, Ref, **Zentralblatt** (Zbl 1449.35394)

4. *V.S. Gerdjikov, A.A. Stefanov*, **New types of two component NLS-type equations**, Pliska Studia Mathematica vol. 26, 2016, pages:53-66, ISSN (online):0204-9805, Ref, **Zentralblatt** (Zbl 1389.35290)

Общ брой точки спрямо Правилника за прилагане на закона за развитието на акдемичния състав в република България:

Q3 – 2 x 15;
SJR/IF без квартил – 2 x 10;
Реферирани и индексирани без SJR/IF – 2 x 6;
Общо: 62;
Отчитайки коефициент 3 за ПН 4.5: **186** точки.

Публикации по показател Г7: Научна публикация в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация (Web of Science и Scopus), извън хабилитационния труд

Статии в научни списания:

1. *Lyubomir Stoyanov, Maya Zhekova, Aleksander Stefanov, Boris Ivanov, Ivan Stefanov, Gerhard G. Paulus, Alexander Dreischuh*, **Generation of long range low-divergent Gauss–Bessel beams by annihilating optical vortices**, Optics Communications, vol:480, 2021, pages:126510-0, ISSN (online):0030-4018, doi:https://doi.org/10.1016/j.optcom.2020.126510, Ref, Web of Science, IF (2.125 - 2019), Web of Science Quartile: **Q2** (2021), SCOPUS, SJR (0.698 - 2019), SCOPUS Quartile: Q2 (2021), International

2. *Lyubomir Stoyanov, Maya Zhekova, Aleksander Stefanov, Ivan Stefanov, Gerhard G. Paulus, Alexander Dreischuh*, **Zeroth- and first-order long range non-diffracting Gauss–Bessel beams generated by annihilating multiple-charged optical vortices**, Scientific Reports, vol:10, 2020, pages:21981-0, ISSN (online):2045-2322, doi:https://doi.org/10.1038/s41598-020-78613-7, Ref, Web of Science, IF (3.998 - 2019), Web of Science Quartile: **Q1** (2020), SCOPUS, SJR (1.341 - 2019), SCOPUS Quartile: Q1 (Multidisciplinary), International, PhD

3. *T.M. Mishonov, V.N. Gourev, I.M. Dimitrova, N.S. Serafimov, A.A. Stefanov, E.G. Petkov, A.M. Varonov*, **Determination of the Boltzmann constant by the equipartition theorem for capacitors**, European Journal of Physics, vol:40, issue:3, 2019, pages:35102-0, ISSN (print):0143-0807, ISSN (online):1361-6404, doi:https://doi.org/10.1088/1361-6404/ab07e0, Ref, Web of Science, IF (0.756 - 2019), SCOPUS, SJR (0.44 - 2019), SCOPUS Quartile: **Q2**

(Physics and Astronomy)

4. *T.M. Mishonov, V.I. Danchev, E.G. Petkov, V.N. Gourev, I.M. Dimitrova, N.S. Serafimov, A.A. Stefanov, A.M. Varonov*, **Master equation for operational amplifiers: Stability of negative differential converters, crossover frequency and pass-bandwidth**, Journal of Physics Communications, vol:3, issue:3, 2019, ISSN (print):2399-6528, doi:https://doi.org/10.1088/2399-6528/ab050b, Ref, IR , Web of Science Quartile: Q3 (2019), SCOPUS, SJR (0.431 - 2019), SCOPUS Quartile: **Q3** (Physics and Astronomy (miscellaneous)

5. *T.M. Mishonov, E.G. Petkov, N.Zh. Mihailova, A.A. Stefanov, I.M. Dimitrova, V.N. Gourev, N.S. Serafimov, V.I. Danchev, A.M. Varonov*, **Simple do-it-yourself experimental set-up for electron charge q_e measurement**, European Journal of Physics, vol:39, issue:6, 2018, pages:65202-0, ISSN (print):0143-0807, ISSN (online):1361-6404, doi:https://doi.org/10.1088/1361-6404/aad3d7, Ref, Web of Science, IF (0.756 - 2018), Web of Science Quartile: **Q2** (Physics and Astronomy), SCOPUS, SJR (0.44 - 2018), SCOPUS ъQuartile: Q2 (Physics and Astronomy)

6. *V.S. Gerdjikov, D.M. Mladenov, A.A. Stefanov, S.K. Varbev*, **Integrable equations and recursion operators related to the affine Lie algebras $A_r^{(1)}$** , Journal of Mathematical Physics , vol:56, 2015, pages:52702-0, ISSN (print):0022-2488, ISSN (online):1089-7658, doi:http://dx.doi.org/10.1063/1.4919672, Ref, IR , Web of Science Quartile: **Q2** (2015), SCOPUS, SJR (0.792 - 2015), SCOPUS Quartile: Q2 (Mathematical Physics), PhD

7. *V.S. Gerdjikov, D.M. Mladenov, A.A. Stefanov, S.K. Varbev*, **On mKdV equations related to the affine Kac-Moody algebra $A_5^{(2)}$** , Journal of Geometry and Symmetry in Physics, vol:39, 2015, pages:17-31, ISSN (print):1312 - 5192, ISSN (online):1314 - 5673, doi:10.7546/jgsp-39-2015-17-31, Ref, IR , SCOPUS, SJR (0.289 - 2015), SCOPUS Quartile: **Q4** (Mathematical Physics), PhD

Статии в сборници от конференции

1. *A.A. Stefanov, D.M. Mladenov*, **Euler angles parametrization of a two qubit system**, AIP Conference Proceedings 2159, 2019, pages:30033-0, ISSN (print):0094-243X, ISSN (online):1551-7616, ISBN:978-0-7354-1904-9, doi:https://doi.org/10.1063/1.5127498, Ref, Web of Science, IF (0.4 - 2018), SCOPUS, **SJR** (0.182 - 2018)

2. *T.M. Mishonov, A.A. Stefanov, E.G. Petkov, I.M. Dimitrova, V.I. Danchev, V.N. Gourev, A.M. Varonov*, **Manhattan equation for the operational amplifier**, AIP Conference Proceedings 2075, Publisher:AIP Publishing, 2019, pages:160002-0, ISSN (print):0094-243X, ISSN (online):1551-7616, ISBN:978-0-7354-1803-5, doi:https://doi.org/10.1063/1.5091329, Ref, Web of Science, IF (0.4 - 2018), SCOPUS, **SJR** (0.19 - 2019)

3. *V.S. Gerdjikov, D.M. Mladenov, A.A. Stefanov, S.K. Varbev*, **MKdV-type of equations related to $B_2^{(1)}$ and $A_4^{(2)}$ algebra**, Nonlinear Mathematical Physics and Natural Hazards, Springer Proceedings in Physics 163, editor/s:B. Aneva, M. Kouteva-Guentcheva, Publisher:Springer, 2014, pages:59-69, ISBN:978-3-319-14328-6, doi:https://doi.org/10.1007/978-3-319-14328-6_5, Ref, IR , SCOPUS, **SJR** (0.137 - 2014), PhD

Общ брой точки спрямо Правилника за прилагане на закона за развитието на акдемичния състав в република България:

Q1 – 1 x 25;
Q2 – 4 x 20;
Q3 – 1 x 15;
Q4 – 1 x 12;
SJR без квартил – 3 x 10;
Общо: 162;
Отчитайки коефициент 3 за ПН 4.5: **486**;