Списък от научни публикации в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация, включени в тематичната област на монографичния труд:

„АДИТИВНИ СЕНЗОРНИ СИСТЕМИ С ПРИЛОЖЕНИЕ В ЕЛЕКТРОИНЖЕНЕРСТВОТО“ (показател „В4“)
на
д-р МАРТИН РАЛЧЕВ

	Научни публикации	60/n
1	Bogdanov, D., Ralchev, M., Mateev, V., Marinova, I. Harmonic spectrum filtration for current sensor measurements (2019) 2019 16th Conference on Electrical Machines, Drives and Power Systems, ELMA 2019 - Proceedings, art. no. 8771574. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070441447&doi=10.1109%2fELMA.2019.8771574&partnerID=40&md5=b3fcf3e712be3b6d821de45a1242fc47 DOI: 10.1109/ELMA.2019.8771574 SOURCE: Scopus and WoS	15
2	Marinova, I., Mateev, V., Ralchev, M. Harmonic spectrum analysis of current sensor (2019) 2019 11th Electrical Engineering Faculty Conference, BulEF 2019, art. no. 9030702. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082711386&doi=10.1109%2fBulEF48056.2019.9030702&partnerID=40&md5=5ea0ac4380ddddc28bd7622d5d64edd1 DOI: 10.1109/BulEF48056.2019.9030702 SOURCE: Scopus	20
3	Mateev, V., Ralchev, M., Marinova, I. Current sensor accuracy enhancement by harmonic spectrum analysis (2019) Proceedings of the International Conference on Sensing Technology, ICST, 2019-December, art. no. 9047692. SJR 0.166 https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083039229&doi=10.1109%2fICST46873.2019.9047692&partnerID=40&md5=1b4ba00bf10f62bdda9aea111c64c174 DOI: 10.1109/ICST46873.2019.9047692 SOURCE: Scopus and WoS	20
4	Todorova, M., Ralchev, M., Marinova, I., Mateev, V. Rapid Prototyping of Rotational Flux Modulating Magnetic Systems (2020) 2020 12th Electrical Engineering Faculty Conference, BulEF 2020, art. no. 9326069, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85100464332&doi=10.1109%2fBulEF51036.2020.9326069&partnerID=40&md5=a2f5515ac86f40df333d0df799fd2b43 DOI: 10.1109/BulEF51036.2020.9326069 SOURCE: Scopus	15

5	M. Ralchev, V. Mateev, G. Ivanov and I. Marinova, Remote Monitoring of On-Load Tap Changer Switching Cycle Based on Acoustic Sensing, *2021 13th Electrical Engineering Faculty Conference (BulEF)*, 2021, pp. 1-4, https://www.scopus.com/record/display.uri?eid=2-s2.0-85126712610&origin=resultslist&sort=plf-f DOI: 10.1109/BulEF53491.2021.9690788 SOURCE: Scopus and WoS https://www.webofscience.com/wos/woscc/full-record/WOS:000790983900013	15
6	Lozanova, S.V., Ralchev, M.L., Ivanov, A.J., Roumenin, C.S. Sensor with Subsequent Measurement of X, y and Z Magnetic-field Components (2021) 30th International Scientific Conference Electronics, ET 2021 - Proceedings, 2021 https://www.scopus.com/record/display.uri?eid=2-s2.0-85118985703&origin=resultslist DOI 10.1109/ET52713.2021.9579904 SOURCE: Scopus	15
7	Mateev, V., Ivanov, G., Ralchev, M., Marinova, I. Fluid Flow Modeling in 3D Printed CO_2 Absorption Air Contactor *2022 22nd International Symposium on Electrical Apparatus and Technologies, SIELA 2022 - Proceedings*, 2022 https://www.scopus.com/record/display.uri?eid=2-s2.0-85137552970&origin=resultslist *DOI:* 10.1109/SIELA54794.2022.9845781 SOURCE: Scopus	15
8	Lozanova, S., Ralchev, M., Roumenin, C. Device for semiconductor carrier mobility measurement (2022) Comptes Rendus de L'Academie Bulgare des Sciences, 2022, 75(9), pp. 1334–1342, Q3, IF 0.3 https://www.scopus.com/record/display.uri?eid=2-s2.0-85140302175&origin=resultslist DOI 10.7546/CRABS.2022.09.11 SOURCE: Scopus	20
9	Lozanova, S.V., Ralchev, M.L., Ivanov, A.J., Roumenin, C.S. Three-contact In-plane Sensitive Hall Devices 2022 31st International Scientific Conference Electronics, ET 2022 - Proceedings, 2022 https://www.scopus.com/record/display.uri?eid=2-s2.0-85141504750&origin=resultslist DOI: 10.1109/ET55967.2022.9920272 SOURCE: Scopus	15
10	Lozanova, S., Ralchev, M., Roumenin, C. A Novel In-plane-sensitive Double-Hall Device (2022) 32nd International Scientific Symposium Metrology and Metrology Assurance, MMA 2022, 2022 https://www.scopus.com/record/display.uri?eid=2-s2.0-85146439725&origin=resultslist DOI: 10.1109/MMA55579.2022.9993340 SOURCE: Scopus and WoS	15
	Общо за показател В4:	**165**

Списък на научни публикации в издания, които са реферирани и индексирани в световноизвестни бази данни с научна информация, извън тематичната област на монографичния труд

на д-р Мартин Ралчев

	Научни публикации	40/n
1	Ralchev, M., Mateev, V., Marinova, I. Transient heating of discharging li-ion battery (2020) 2020 21st International Symposium on Electrical Apparatus and Technologies, SIELA 2020 - Proceedings, art. no. 9167036. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091336640&doi=10.1109%2fSIELA49118.2020.9167036&partnerID=40&md5=e70782216d3502428d9c0b66b13ea484 DOI: 10.1109/SIELA49118.2020.9167036 SOURCE: Scopus	13,3
2	Lozanova, S., Ralchev, M., Roumenin, C. Bipolar Transistor based Magnetogradiometer (2021)31st International Scientific Symposium Metrology and Metrology Assurance, MMA 2021, 2021 https://www.scopus.com/record/display.uri?eid=2-s2.0-85123193768&origin=resultslist DOI 10.1109/MMA52675.2021.9610911 SOURCE: Scopus	13,3
3	Ralchev, M., Mateev**, V.,** Marinova, I. Measurement of AC Electric Arc Discharge Acoustic Spectrum (2021) 31st International Scientific Symposium Metrology and Metrology Assurance, MMA 2021. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85123214927&doi=10.1109%2fMMA52675.2021.9610921&partnerID=40&md5=ec0882908c0983041b7bb1ec821bdc5e DOI: 10.1109/MMA52675.2021.9610921 SOURCE: Scopus and WoS https://www.webofscience.com/wos/woscc/full-record/WOS:000855221800030	13,3
4	Ralchev, M., Mateev, V., Marinova, I. IoT System for Electric Discharge Acoustic Spectrum Monitoring (2021) International Conference on High Technology for Sustainable Development, HiTech 2021 - Proceedings. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85123400178&doi=10.1109%2fHiTech53072.2021.9614210&partnerID=40&md5=d94f967f407491a91377d3c344c24709 DOI: 10.1109/HiTech53072.2021.9614210 SOURCE: Scopus	13,3
5	Mateev, V., Ralchev, M., Marinova, I. Electric Arc Discharge Power Estimation by CNN Image Classification Q4, SJR 0.147 (2022) *Lecture Notes in Electrical Engineering*, 2022, 886, pp. 315–326 https://www.scopus.com/record/display.uri?eid=2-s2.0-85132995590&origin=resultslist DOI: 10.1007/978-3-030-98886-9_25 SOURCE: Scopus	13,3

6	Mateev, V., Ralchev, M., Marinova, I. Filament Supply Sensing and Control for FFF/FDM 3D Printing Technology (2022) *Lecture Notes in Electrical Engineering*, 2022, 886, pp. 301–313 Q4, SJR 0.147 https://www.scopus.com/record/display.uri?eid=2-s2.0-85133008103&origin=resultslist DOI: 10.1007/978-3-030-98886-9_24 SOURCE: Scopus	13,3
7	Ralchev, M., Mateev, V., Marinova, I. Light Intensity Influence on Stereolithographic 3D Printing Curing Time *(2022) 2022 7th Junior Conference on Lighting, Lighting 2022 - Proceedings*, 2022 https://www.scopus.com/record/display.uri?eid=2-s2.0-85142264085&origin=resultslist DOI: 10.1109/Lighting56379.2022.9929158 SOURCE: Scopus	13,3
8	Mateev, V., Ralchev, M., Marinova, I. Design and Testing of Gas Diffusion Monitoring Chamber for Two Component Mixtures (2022) *32nd International Scientific Symposium Metrology and Metrology Assurance, MMA 2022*, 2022 https://www.scopus.com/record/display.uri?eid=2-s2.0-85146432586&origin=resultslist DOI: 10.1109/MMA55579.2022.9992718 SOURCE: Scopus and WoS https://www.webofscience.com/wos/woscc/full-record/WOS:000947905500002	13,3
9	Lozanova, S., Ralchev, M., Roumenin, C. Generation of microparticles in rock structures (2022) Comptes Rendus de L'Academie Bulgare des Sciences, 2022, 75(12), pp. 1813–1821, Q3, IF 0.3 https://www.scopus.com/record/display.uri?eid=2-s2.0-85146474842&origin=resultslist DOI: 10.7546/CRABS.2022.12.13 SOURCE: Scopus	13,3
10	Ralchev, M., Mateev, V., Marinova, I. DC electric arc discharge acoustic spectrum analysis by computer measurement system (2022)*AIP Conference Proceedings*, 2022, 2570, 030003 SJR 0.164 https://www.scopus.com/record/display.uri?eid=2-s2.0-85137420502&origin=resultslist DOI: 10.1063/5.0099508 SOURCE: Scopus	13,3
11	Lozanova, S., Ralchev, M., Roumenin, C. New sensor technology for determining rock pre-destructive states (2023) Comptes Rendus de L'Academie Bulgare des Sciences, Open Access, Volume 76, Issue 2, Pages 273 – 281, 2023, Q3, IF 0.3 https://www.scopus.com/record/display.uri?eid=2-s2.0-85151894973&origin=resultslist DOI : 10.7546/CRABS.2023.02.12 SOURCE: Scopus	13,3

12	Ralchev, M., Mateev, V., Marinova, I. 3D Printed Designs for Permanent Magnets Fixation on High Speed Rotors (2023) *2023 18th Conference on Electrical Machines, Drives and Power Systems, ELMA 2023 - Proceedings*, 2023 https://www.scopus.com/record/display.uri?eid=2-s2.0-85169415488&origin=resultslist DOI: 10.1109/ELMA58392.2023.10202343 SOURCE: Scopus	13,3
13	Ralchev, M., Mateev, V., Marinova, I. Magnetic Hysteresis Models for 3D Printed Composite Materials (2024) 2024 IEEE International Magnetic Conference - Short Papers, INTERMAG Short Papers 2024 – Proceedings https://www.scopus.com/record/display.uri?eid=2-s2.0-85199002069&origin=resultslist DOI: 10.1109/INTERMAGShortPapers61879.2024.10576910 SOURCE: Scopus	13,3
14	Mateev V., T. Grakov, M. Ralchev, I. Marinova, Fluid Flow Modeling for Hollow Microchannel Cantilever for Micro 3D Printing, Proceedings of the 50th International Conference "Applications of Mathematics in Engineering and Economics", AIP Conference Proceedings. AIP Publishing, 2024. (под печат)	10
15	Mateev V., M. Ralchev, I. Marinova, Diffusion Field Reconstruction by Image Processing Technique, Proceedings of the 50th International Conference "Applications of Mathematics in Engineering and Economics", AIP Conference Proceedings. AIP Publishing, 2024. (под печат)	13,3
16	Ivanov G., M. Ralchev, V. Mateev, I. Marinova, Measurement of Sn Soldering Contact Resistance in Liquid Nitrogen, 2024 XXXIV International Scientific Symposium Metrology and Metrology Assurance (MMA), 2024. (под печат)	10
	Общо за показател Г7	**206,2**

Списък на научни публикации в нереферирани списания с научно рецензиране или в редактирани колективни трудове, извън тематичната област на монографичния труд

на

д-р Мартин Ралчев

	Научни публикации	20/n
1	V. Mateev, **M. Ralchev**, I. Marinova, Machine learning approach for electric arc discharge parameters estimation Unitech 2021, Proceedings of International Scientific Conference, 19-20 November 2021, Gabrovo.	6.66
2	S. Lozanova, A. Ivanov, **M. Ralchev**, C. Roumenin, A New Hall Microdevice with Minimal Complexity, Proceedings 2024, 97(1), 117; https://doi.org/10.3390/proceedings2024097117	5
3	S. Lozanova, **M.Ralchev.** Contactless device for determining the direction of rotation. Proc. Intern. Scient. Confer. UNITECH 2021", TU - Gabrovo, 2021, ISSN:1313-230X, vol. I, 155-160.	10
4	S. Lozanova, A. Ivanov, **M. L. Ralchev**, C. Roumenin, Two-axis magnetic-field sensor, Proc. Intern. Scient. Confer. UNITECH 2023", TU - Gabrovo, 2023, ISSN: 1313-230X, vol. I, pp.180-186	5
5	S. Lozanova, A. Ivanov, **M. L. Ralchev**, C. Roumenin, Double-Hall microsensor, Proc. Intern. Scient. Confer. UNITECH 2023", TU - Gabrovo, 2023, ISSN: 1313-230X, vol. I, pp.187-192	5
6	S. Lozanova, **M. Ralchev**, A. Ivanov, C. Roumenin, A Novel Sensor Effect Applicable in Seismically Active Regions, Proceedings 2024, 97, 102. https://doi.org/10.3390/proceedings2024097102	5
7	**M. Ralchev**, New sensor phenomenon in rocks structures Under uniaxial deformation, Engineering Sciences, LXI, 2024, No. 1, pp. 50-57	20
	Общо за показател Г8	**56,66**