

# СПИСЪК НА ТРУДОВЕТЕ

---

на доц. д-р инж. Август Йорданов Иванов, представени в конкурса за професор към секция СИТРМ на Института по роботика при БАН

## 1999

1. Ch S Roumenin, **A Ivanov**, P Nikolova, A linear multisensor for temperature and magnetic field based on diode structure, *Sensors and Actuators A: Physical, Elsevier*, Vol. 72, Issue 1, 8 January 1999, Pages 27–31, ISSN: 0924-4247, **IF=0.917**;  
[https://doi.org/10.1016/S0924-4247\(98\)00206-4](https://doi.org/10.1016/S0924-4247(98)00206-4)
2. Ch. Roumenin, **A. Ivanov**, P. Nikolova, A new anisotropy effect in the amperometric magnetic-field microsensors, *Sensors and Actuators A: Physical, Elsevier*, Vol. 77, Issue 3, 2 November 1999, Pages 195–198, ISSN: 0924-4247, **IF=0.917**;  
[https://doi.org/10.1016/S0924-4247\(99\)00196-X](https://doi.org/10.1016/S0924-4247(99)00196-X)

## 2000

3. C.S. Roumenin, D. Nikolov, A. Ivanov, Enhancing the sensitivity of Hall microsensor by minority carrier injection, *Electronics Letters*, Vol. 36, Issue 16, 3 August 2000, Pages 1375 – 1376, Publisher: IET - Institution of Engineering and Technology, Print ISSN: 0013-5194; **Q1 (2000)**; **SJR=0.38**  
<https://doi.org/10.1049/el:20001017>
4. Ch Roumenin, **A Ivanov**, P Nikolova, A new class of multisensors for magnetic field and temperature based on the Diode Hall effect, *Sensors and Actuators A: Physical, Elsevier*, Vol. 85, Issues 1–3, 25 August 2000, Pages 163–168, ISSN: 0924-4247, **IF=1.003**;  
[https://doi.org/10.1016/S0924-4247\(00\)00371-X](https://doi.org/10.1016/S0924-4247(00)00371-X)

## 2001

5. Ch Roumenin, K Dimitrov, A Ivanov, Integrated vector sensor and magnetic compass using a novel 3D Hall structure, *Sensors and Actuators A: Physical, Elsevier*, Vol. 92, Issues 1–3, 1 August 2001, Pages 119–122, ISSN: 0924-4247, **IF=0.917**;  
[https://doi.org/10.1016/S0924-4247\(01\)00549-0](https://doi.org/10.1016/S0924-4247(01)00549-0)

## 2002

6. Ch Roumenin, D Nikolov, **A Ivanov**, New enhancing sensitivity tool for Hall effect devices, *Sensors and Actuators A: Physical, Elsevier*, Vol. 97–98, 1 April 2002, Pages 296–301, ISSN: 0924-4247, **IF=1.299**;  
[https://doi.org/10.1016/S0924-4247\(01\)00865-2](https://doi.org/10.1016/S0924-4247(01)00865-2)

Подпис:

/ Август Иванов /

7. Chavdar Roumenin, Dimitar Nikolov, **Avgust Ivanov**, A novel parallel-field Hall microsensor, *Proc. Digest Tech. Papers Euroensors XVI, The 16th European Conference on Solid-State Transducers*, Prague, Czech Republic, Magnetic sensors, TP02, 1B4.06p, 15-18 September 2002, Pages 545-548;  
[https://www.researchgate.net/profile/Avgust-Ivanov/publication/318723153\\_A\\_NOVEL\\_PARALLEL-FIELD\\_HALL\\_MICROSENSOR/links/5979b773aca272177c23edeb/A-NOVEL-PARALLEL-FIELD-HALL-MICROSENSOR.pdf](https://www.researchgate.net/profile/Avgust-Ivanov/publication/318723153_A_NOVEL_PARALLEL-FIELD_HALL_MICROSENSOR/links/5979b773aca272177c23edeb/A-NOVEL-PARALLEL-FIELD-HALL-MICROSENSOR.pdf)

## 2004

8. Ch.S. Roumenin, D. Nikolov, **A. Ivanov**, 3-D silicon vector sensor based on a novel parallel-field Hall microdevice, *Sensors and Actuators A: Physical, Elsevier*, Vol. 110, Issues 1–3, 1 February 2004, Pages 219–227, ISSN: 0924-4247, **IF=1.462**;  
<https://doi.org/10.1016/j.sna.2003.07.010>
9. CS Roumenin, D Nikolov, **A Ivanov**, A novel parallel-field Hall sensor with low offset and temperature drift based 2D integrated magnetometer, *Sensors and Actuators A: Physical, Elsevier*, Vol. 115, Issues 2–3, 21 September 2004, Pages 303–307, ISSN: 0924-4247, **IF=1.462**;  
<https://doi.org/10.1016/j.sna.2004.03.056>

## 2007

10. Г.Величков, С.Лозанова, **А.Иванов**, Ч.Руменин, Безконтактни ватмери - една иновация за националната електротехническа индустрия, *Месечен информационен бюлетин за наука и технологии на Българската Академия на науките "Новости"*, брой 6 (46), година V, София, юни 2007 г., стр. 3 – 4, ISSN 1312-2436;

## 2011

11. S Lozanova, **A Ivanov**, C Roumenin, A novel three-axis Hall magnetic sensor, *Procedia Engineering, Elsevier*, Vol. 25, 2011, Pages 539-542, ISSN: 1877-7058, **IF=0.45**;  
<https://doi.org/10.1016/j.proeng.2011.12.134>
12. S Lozanova, **A Ivanov**, C Roumenin, A Hall Effect Device with Enhanced Sensitivity, *Procedia Engineering, Elsevier*, Vol. 25, 2011, Pages 543-546, ISSN: 1877-7058, **IF=0.45**;  
<https://doi.org/10.1016/j.proeng.2011.12.135>

## 2012

13. Siya Lozanova, **Avgust Ivanov**, Chavdar Roumenin, The device design as enhancing sensitivity tool in hall elements, *Comptes rendus de l'Academie bulgare des Sciences*, Vol. 65, No4, pp.519-526, 2012, **IF=0.152**  
[http://www.proceedings.bas.bg/cgi-bin/mitko/ODOC\\_abs.pl?2012\\_4\\_16](http://www.proceedings.bas.bg/cgi-bin/mitko/ODOC_abs.pl?2012_4_16)

Подпис:

/ Август Иванов /

## 2017

14. Siya Lozanova, Svetoslav Noykov, L. Altunyan, **A. Ivanov**, Chavdar Roumenin, A Novell Hall Magnetometer Using Dynamic Offset Cancellation, *MDPI, Proceedings at the Eurosensors 2017 Conference*, Paris, France, 3–6 September 2017, 1(4), 329; **SJR:0.282**  
<https://doi.org/10.3390/proceedings1040329>
15. S. Lozanova, S. Noykov, **A. Ivanov**, C. Roumenin, Angle Measurement and 3D Magnetic Field Sensing Using Circular Hall Microsensor, *MDPI, Proceedings at the Eurosensors 2017 Conference*, Paris, France, 3–6 September 2017, 1(4), 330; **SJR:0.282**  
<https://doi.org/10.3390/proceedings1040330>
16. Siya Lozanova, Levon Altunyan, Svetoslav Noykov, **Avgust Ivanov**, Chavdar Roumenin. A nonlinearity induced by the Lorentz force in Hall devices, *Comptes rendus de l'Académie bulgare des Sciences*, Vol. 70, Issue 7, 2017, Pages 933-938, ISSN 1011-1018, **IF=0.152**;  
[http://www.proceedings.bas.bg/cgi-bin/mitko/ODOC\\_abs.pl?2017\\_7\\_14](http://www.proceedings.bas.bg/cgi-bin/mitko/ODOC_abs.pl?2017_7_14)

## 2018

17. Lozanova S., Kolev I., **Ivanov A.**, Roumenin Ch.. 2D in-plane sensitive Hall-effect sensor. *MDPI, Proceedings at the Eurosensors 2018 Conference, Graz, Austria, 9–12 September 2018*, 2(13), 711, ISSN:ISSN 2504-3900, **SJR:0.282**  
DOI:10.3390/proceedings2130711  
<https://doi.org/10.3390/proceedings2130711>
18. Lozanova S., Kolev I., **Ivanov A.**, Roumenin Ch.. In-plane sensitive magnetoresistors as a Hall device. *MDPI, Proceedings at the Eurosensors 2018 Conference, Graz, Austria, 9–12 September 2018*, 2(13), 710, ISSN:ISSN 2504-3900, **SJR:0.282**  
DOI:10.3390/proceedings2130710  
<https://doi.org/10.3390/proceedings2130710>
19. Lozanova S., Kolev I., **Ivanov A.**, Roumenin Ch.. Low-offset in-plane sensitive Hall arrangement. *MDPI, Proceedings at the Eurosensors 2018 Conference, Graz, Austria, 9–12 September 2018*, 2(13), 713; ISSN:ISSN 2504-3900, **SJR:0.282**  
DOI:10.3390/proceedings2130713  
<https://doi.org/10.3390/proceedings2130713>
20. Lozanova S., Kolev I., **Ivanov A.**, Roumenin C., Experimental evidence of performance anomalies in Hall devices originated from design. *Compt. rendus ABS*, 71, 6, 2018, 830-838. ISI **IF:0.27 Q4** (Web of Science);  
[http://www.proceedings.bas.bg/cgi-bin/mitko/ODOC\\_abs.pl?2018\\_6\\_14](http://www.proceedings.bas.bg/cgi-bin/mitko/ODOC_abs.pl?2018_6_14)

## 2019

21. S. Lozanova, **A. Ivanov**, C. Roumenin. 2D In-plane Sensitive Hall Device. *Proc. The Tenth Intern. Conf. on Sensor Device Technologies and Applications, SENSORDEVICES*

Подпис:

/ Август Иванов /

2019, Nice, France, IARIA, 2019, ISBN:978-1-61208-745-0, ISSN:2308-3514, 72-75 Без JCR или SJR – индексирани в WoS или Scopus  
[http://personales.upv.es/thinkmind/dl/conferences/sensordevices/sensordevices\\_2019/sensordevices\\_2019\\_6\\_20\\_20020.pdf](http://personales.upv.es/thinkmind/dl/conferences/sensordevices/sensordevices_2019/sensordevices_2019_6_20_20020.pdf)

22. S. V. Lozanova, **A. J. Ivanov**, C. S. Roumenin. Magnetotransistor Sensors with Different Operation Modes. *Proc. XXIX International Scientific Symposium Metrology and Metrology Assurance 2019*, Sozopol, Bulgaria, IEEE, 2019, ISBN:978-1-7281-2213-7/19 Без JCR или SJR – индексирани в WoS или Scopus  
DOI: 10.1109/MMA.2019.8936009  
<https://ieeexplore.ieee.org/abstract/document/8936009>
23. S. V. Lozanova, **A. J. Ivanov**, C. S. Roumenin. Three-dimensional Field Sensing with Magnetotransistors. *Proc. XXVIII International Scientific Conference Electronics (ET) 2019*, Sozopol, Bulgaria, IEEE, 2019, ISBN:978-1-7281-2574-9, Без JCR или SJR – индексирани в WoS или Scopus  
DOI: 10.1109/ET.2019.8878505  
<https://ieeexplore.ieee.org/abstract/document/8878505>
24. S. V. Lozanova, **A. J. Ivanov**, C. S. Roumenin, Transistor Based Multidimensional Magnetometer. *Proc. X National Conference with IEEE International Participation (ELECTRONICA)*, Sofia, Bulgaria, IEEE, 2019, ISBN:978-1-7281-3623-3, Без JCR или SJR – индексирани в WoS или Scopus  
DOI: 10.1109/ELECTRONICA.2019.8825591
25. Siya Lozanova, **Avugust Ivanov**, Chavdar Roumenin, From magnetoresistor element to in-plane sensitive Hall device, *Sensors and Actuators A: Physical, Elsevier*, Volume 299, 1 November 2019, ISSN 0924-4247, **SJR** (Scopus): **0.664**, **JCR-IF** (Web of Science): **2.739**, **Q1**, не оглавява ранглистата (Scopus),  
<https://doi.org/10.1016/j.sna.2019.111596>

## 2020

26. Siya V Lozanova, **Avugust J Ivanov**, Chavdar S Roumenin, Hall Sensor with Geometry-enhanced Sensitivity, *2020 XXX International Scientific Symposium Metrology and Metrology Assurance (MMA)*, Pages 1-4, November 2020, Electronic ISBN:978-1-7281-9719-7, Print on Demand(PoD) ISBN:978-1-7281-9720-3, Без JCR или SJR – индексирани в WoS или Scopus  
DOI: 10.1109/MMA49863.2020.9254253  
<https://ieeexplore.ieee.org/document/9254253>

## 2021

27. Siya V Lozanova, Martin L Ralchev, **Avugust J Ivanov**, Chavdar S Roumenin, Sensor with Subsequent Measurement of X, Y and Z Magnetic-field Components, *2021 XXX International Scientific Conference Electronics (ET)*, Pages 1-5, November 2021, Electronic ISBN:978-1-6654-4518-4, Print on Demand(PoD) ISBN:978-1-6654-4519-1, Без JCR или SJR – индексирани в WoS или Scopus

Подпис:

/ Авугуст Иванов /

DOI: 10.1109/ET52713.2021.9579904  
<https://ieeexplore.ieee.org/abstract/document/9579904>

## 2022

28. S. V. Lozanova, M. L. Ralchev, **A. J. Ivanov**, C. S. Roumenin. Three-contact In-plane Sensitive Hall Devices. *XXXI International Scientific Conference Electronics (ET), IEEE*, 2022, Electronic ISBN:978-1-6654-9878-4; Print on Demand(PoD) ISBN:978-1-6654-9879-1, **SJR** (Scopus): **0.11**  
DOI: 10.1109/ET55967.2022.9920272  
<https://ieeexplore.ieee.org/abstract/document/9920272>

## 2023

29. Siya Lozanova, Avgust Ivanov, Martin Ralchev, Chavdar Roumenin, A new Hall Microdevice with Minimal Complexity, *MDPI, Proceedings, Eurosenors XXXIV*, Lecce, Italy, 10-13 September 2023. (под печат)
30. Siya Lozanova, Avgust Ivanov, Martin Ralchev, Chavdar Roumenin, A Novel Sensor Effect Applicable in Seismically, *MDPI, Proceedings, Eurosenors XXXIV*, Lecce, Italy, 10-13 September 2023. (под печат)

Подпис:

/ Август Иванов /