

# Yan Feng Jiang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4792340/publications.pdf>

Version: 2024-02-01

50  
papers

356  
citations

840776

11  
h-index

888059

17  
g-index

50  
all docs

50  
docs citations

50  
times ranked

480  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Fe <sub>16</sub> N <sub>2</sub> compound Free-Standing Foils with 20 MGOe Magnetic Energy Product by Nitrogen Ion-Implantation. Scientific Reports, 2016, 6, 25436.	3.3	50
2	Preparation of an $\hat{I} \pm \hat{e}^3 \hat{a} \hat{e} \hat{F} e_{16} N_2$ Magnet via a Ball Milling and Shock Compaction Approach. Advanced Engineering Materials, 2016, 18, 1009-1016.	3.5	29
3	Top-down nanofabrication of silicon nanoribbon field effect transistor (Si-NR FET) for carcinoembryonic antigen detection. International Journal of Nanomedicine, 2017, Volume 12, 4623-4631.	6.7	28
4	DFT calculation and experimental investigation of Mn doping effect in Fe <sub>16</sub> N <sub>2</sub> . AIP Advances, 2016, 6, .	1.3	20
5	Synthesis of $\hat{I} \pm \hat{e}^3 \hat{a} \hat{e} \hat{F} e_{16} N_2$ Anisotropic Magnet by t. Physical Review Applied, 2016, 6, .	3.8	20
6	High-Density 3D Printable Chipless RFID Tag with Structure of Passive Slot Rings. Sensors, 2019, 19, 2535.	3.8	20
7	Construction of Ultrathin Nitrogen-Doped Porous Carbon Nanospheres Coated With Polyaniline Nanorods for Asymmetric Supercapacitors. Frontiers in Chemistry, 2019, 7, 455.	3.6	14
8	FeN foils by nitrogen ion-implantation. Journal of Applied Physics, 2014, 115, 17A753.	2.5	13
9	Porous Fe <sub>2</sub> O <sub>3</sub> Nanorods on Hierarchical Porous Biomass Carbon as Advanced Anode for High-Energy-Density Asymmetric Supercapacitors. Frontiers in Chemistry, 2020, 8, 611852.	3.6	13
10	L-Shaped Slot-Loaded Stepped-Impedance Microstrip Structure UWB Antenna. Micromachines, 2020, 11, 828.	2.9	13
11	Scaling analysis of in-plane and perpendicular anisotropy magnetic tunnel junctions using a physics-based model. , 2014, , .		12
12	Heavy-Metal-Free, Low-Damping, and Non-Interface Perpendicular Fe <sub>16</sub> N <sub>2</sub> Thin Film and Magnetoresistance Device. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900089.	2.4	12
13	Thermal stability of partially ordered Fe <sub>16</sub> N <sub>2</sub> film on non-magnetic Ag under layer. Journal of Applied Physics, 2014, 115, .	2.5	10
14	9 T high magnetic field annealing effects on FeN bulk sample. Journal of Applied Physics, 2014, 115, 17A758.	2.5	9
15	Life-time degradation of STT-MRAM by self-heating effect with TDDB model. Solid-State Electronics, 2020, 173, 107878.	1.4	9
16	A 45 nm CMOS Avalanche Photodiode with 8.4-GHz Bandwidth. Micromachines, 2020, 11, 65.	2.9	8
17	Compact model of nanometer STT-MTJ device with scale effect. AIP Advances, 2021, 11, .	1.3	7
18	RFID-Based Microwave Biosensor for Non-Contact Detection of Glucose Solution. Biosensors, 2021, 11, 480.	4.7	7

#	ARTICLE	IF	CITATIONS
19	Magnetic Tunnel Junction-Based Spin Register for Nonvolatile Integrated Circuits. IEEE Transactions on Electron Devices, 2012, 59, 2917-2923.	3.0	5
20	Novel Low Noise Amplifier for Neural Signals Based on STT-MTJ Spintronic Device. IEEE Access, 2019, 7, 145641-145650.	4.2	5
21	Quantitative, Temperature-Calibrated and Real-Time Glucose Biosensor Based on Symmetrical-Meandering-Type Resistor and Intertwined Capacitor Structure. Biosensors, 2021, 11, 484.	4.7	5
22	Fast spintronic thermal sensor for IC power driver cooling down. , 2016, , .		4
23	Incorporation of Phosphorus Impurities in a Silicon Nanowire Transistor with a Diameter of 5 nm. Micromachines, 2019, 10, 127.	2.9	4
24	Fast Writing Strategy of STT-MRAM With Pipeline Architecture. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	4
25	Compact Model of Domain Wall MTJ Driven by Spin Orbit Torque and Dzyaloshinskiiâ€Moriya Interaction. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	4
26	Modeling of Single-Digit Nanometer Perpendicular Shape Anisotropy Magnetic Tunnel Junction Driven by Spin-Transfer-Torque. , 2021, , .		3
27	Leakage-Current-Canceling Current-Sampling Sense Amplifier for Deep Submicrometer STT-RAM. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3874-3878.	3.0	3
28	Synthesis of $\gamma'$ -Fe <sub>4</sub> N Soft Magnetic Material by High-Pressure Nitriding Approach. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	2
29	Study on the improvement of p-type multi-crystalline silicon material for solar cells by the hydrogenation with electron injection. Bulletin of Materials Science, 2020, 43, 1.	1.7	2
30	Optimization on Dry-Etching Process for High-Density STT-MRAM. IEEE Nanotechnology Magazine, 2021, 20, 161-167.	2.0	2
31	Efficiency enhancement of p-type multi-crystalline solar cells in different efficiency grades by hydrogenation with electron injection. Journal of Renewable and Sustainable Energy, 2021, 13, 023501.	2.0	2
32	Design of Planar Microstrip Ultrawideband Circularly Polarized Antenna Loaded by Annular-Ring Slot. International Journal of Antennas and Propagation, 2021, 2021, 1-10.	1.2	2
33	Cache performance of NV-STT-MRAM with scale effect and comparison with SRAM. International Journal of Electronics, 2022, 109, 391-409.	1.4	2
34	Highly Sensitive Micromachined Thermopile Infrared Sensor System With Chopper Operational Amplifier. IEEE Transactions on Electron Devices, 2021, 68, 4497-4503.	3.0	2
35	Design and Development of a 2 Å— 2 Array Piezoelectricâ€Electromagnetic Hybrid Energy Harvester. Micromachines, 2022, 13, 752.	2.9	2
36	Microstructure Analysis of Melt Spun FeN foils with $\hat{\Gamma}$ -Fe <sub>16</sub> N <sub>2</sub> Phase. MRS Advances, 2016, 1, 2373-2378.	0.9	1

#	ARTICLE	IF	CITATIONS
37	High Ms Fe16N2 thin film with Ag under layer on GaAs substrate. AIP Advances, 2016, 6, .	1.3	1
38	A macro model of RF Schottky diode in 22-nm CMOS and its application. Solid-State Electronics, 2019, 154, 7-11.	1.4	1
39	Notice of Violation of IEEE Publication Principles: A Compact Model for Digital Circuits Operating Near Threshold in Deep-Submicrometer MOSFET. IEEE Transactions on Electron Devices, 2019, 66, 2081-2085.	3.0	1
40	Synthesis of $\text{Fe}^{3+}$ -Fe4N powder in liquid nitrogen. AIP Advances, 2019, 9, 035215.	1.3	1
41	A Dynamic Reference and Variation-Tolerant Sensing Circuit for Deep Nanometer STT-MRAM. IEEE Nanotechnology Magazine, 2020, 19, 672-681.	2.0	1
42	Calibration and Parameter Extraction of STT-MTJ Device at High Frequency by Using De-Embedding Approach Based on TRL Calibration. IEEE Transactions on Electron Devices, 2021, 68, 271-278.	3.0	1
43	A novel CMOS hexaferrite circulator with 25 GHz operating frequency. AIP Advances, 2021, 11, 045022.	1.3	1
44	An Ultra-Low Power Threshold Voltage Variable Artificial Retina Neuron. Electronics (Switzerland), 2022, 11, 365.	3.1	1
45	STT-MRAM error correction technology based on LDPC coding. AIP Advances, 2020, 10, .	1.3	0
46	Optimisation of SRAM cell in 7-nm node by response surface method. International Journal of Electronics, 0, , 1-17.	1.4	0
47	Novel ESD device design for STT-MRAM memory chip. Microelectronics Reliability, 2022, 129, 114474.	1.7	0
48	A Microfabricated Bandpass Filter with Coarse-Tuning and Fine-Tuning Ability Based on IPD Process and PCB Artwork. Micromachines, 2022, 13, 123.	2.9	0
49	Nanoscale Thermal Transport Model of Magnetic Tunnel Junction (MTJ) Device for STT-MRAM. IEEE Transactions on Magnetics, 2022, 58, 1-6.	2.1	0
50	Potential Mechanism of LeTID Dynamic Behavior Dependent on Firing and Hydrogenation with Electron Injection. Silicon, 0, , 1.	3.3	0