

# Apirat Siritaratiwat

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

519  
citations

933264

10  
h-index

752573

20  
g-index

70  
all docs

70  
docs citations

70  
times ranked

476  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Sizing of CPP-GMR Read Sensors for Magnetic Recording Densities of 1â€“4 Tb/inÂ². IEEE Access, 2021, 9, 130758-130766.	2.6	1
2	Characterization Model of Dielectric Properties of Cane Sugar Solution Over 0.5â€“14 GHz. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	2.4	9
3	Utilization of CD and DVD Pick-Up Heads for Scratch Inspection of Magnetic Disk in Dynamic State Using Microcontroller. Applied Sciences (Switzerland), 2020, 10, 6897.	1.3	0
4	Optimization of Electric Vehicle Charging Scheduling in Urban Village Networks Considering Energy Arbitrage and Distribution Cost. Energies, 2020, 13, 349.	1.6	35
5	A comparison of the effectiveness of voltage stability indices in an optimal power flow. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 534-544.	0.8	8
6	Temperature dependence of magnetic properties on switching energy in magnetic tunnel junction devices with tilted magnetization. Applied Surface Science, 2019, 472, 36-39.	3.1	4
7	Switching Performance Comparison With Low Switching Energy Due to Initial Temperature Increment in CoFeB/MgO-Based Single and Double Barriers. IEEE Transactions on Electron Devices, 2019, 66, 4062-4067.	1.6	1
8	Optimal Stator Design of Doubly Salient Permanent Magnet Generator for Enhancing the Electromagnetic Performance. Energies, 2019, 12, 3201.	1.6	9
9	Increasing PV penetration level in low voltage distribution system using optimal installation and operation of battery energy storage. Cogent Engineering, 2019, 6, .	1.1	12
10	A novel method for solving multi-stage distribution substation expansion planning. Energy Procedia, 2019, 156, 371-383.	1.8	7
11	Optimal planning of energy storage system using modified differential evolution algorithm. Energy Procedia, 2019, 156, 192-200.	1.8	3
12	An Improved DA-PSO Optimization Approach for Unit Commitment Problem. Energies, 2019, 12, 2335.	1.6	29
13	Implementation of Static Line Voltage Stability Indices for Improved Static Voltage Stability Margin. Journal of Electrical and Computer Engineering, 2019, 2019, 1-14.	0.6	12
14	Structural Design of Partitioned Stator Doubly Salient Permanent Magnet Generator for Power Output Improvement. Advances in Materials Science and Engineering, 2019, 2019, 1-8.	1.0	11
15	Power Loss Minimization and Voltage Stability Improvement in Electrical Distribution System via Network Reconfiguration and Distributed Generation Placement Using Novel Adaptive Shuffled Frogs Leaping Algorithm. Energies, 2019, 12, 553.	1.6	85
16	Unstable Playback Response of CPP-GMR Read Head Induced by Electromagnetic Interference: Structural Dependence. IEEE Transactions on Magnetics, 2019, 55, 1-6.	1.2	4
17	Increasing Benefits in High PV Penetration Distribution System by Using Battery Energy Storage and Capacitor Placement Based on Salp Swarm Algorithm. Energies, 2019, 12, 4817.	1.6	19
18	Microwave Sensor for Nitrate and Phosphate Concentration Sensing. IEEE Sensors Journal, 2019, 19, 2950-2955.	2.4	24

#	ARTICLE	IF	CITATIONS
19	Estimation of Solar Radiation and Optimal Tilt Angles of Solar Photovoltaic for Khon Kaen University. , 2018, , .		2
20	Effect of Concrete Duct Bank Dimension with Thermal Properties of Concrete on Sensitivity of Underground Power Cable Ampacity. , 2018, , .		4
21	Optimal Grid-Connected with Multi-Solar PV Placement and Sizing for Power Loss Reduction and Voltage Profile Improvement. , 2018, , .		4
22	A Hybrid DA-PSO Optimization Algorithm for Multiobjective Optimal Power Flow Problems. Energies, 2018, 11, 2270.	1.6	62
23	Planar microwave sensor for detection and discrimination of aqueous organic and inorganic solutions. Sensors and Actuators B: Chemical, 2018, 271, 300-305.	4.0	35
24	Playback signal distortion in CPP-GMR read heads due to induced electromagnetic interference. Journal of Magnetism and Magnetic Materials, 2018, 465, 14-18.	1.0	3
25	An Improvement of Magnetic Flux Linkage in Electrical Generator using the novel Permanent Magnet Arrangement. Acta Physica Polonica A, 2018, 133, 642-644.	0.2	8
26	Investigation of electromagnetic interference effects by ESD simulator on test parameters of tunneling magnetic recording heads. Journal of Magnetism and Magnetic Materials, 2017, 421, 453-456.	1.0	1
27	Simulation of magnetic footprints for heat assisted magnetic recording. EPJ Applied Physics, 2017, 78, 20301.	0.3	2
28	Angular Dependence of Spin Transfer Switching in Spin Valve Nanopillar Based Heusler Alloy. Advances in Materials Science and Engineering, 2016, 2016, 1-7.	1.0	0
29	Electromagnetic Interference Effects on Stability of Tunneling Magnetoresistive Read Heads. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	1
30	Windowing and Groove Depth Variation Techniques for Crosstalk Reduction on Six-Line Suspension Assembly Interconnect Trace in Magnetic Recording Heads. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	0
31	Networking Radio Broadcast Controlled by using Audio Mute Clock. Procedia Computer Science, 2016, 86, 71-74.	1.2	0
32	Electromagnetic interference-induced instability in CPP-GMR read heads. Journal of Magnetism and Magnetic Materials, 2016, 412, 42-48.	1.0	8
33	Structural Size Effect with Altered Temperature on MgO-based Magnetic Tunnel Junction Device During Current Flow. Procedia Computer Science, 2016, 86, 200-203.	1.2	2
34	Crosstalk Reduction on 6-line Suspension Assembly Interconnect Trace in Head Gimbal Assembly by using Guard Technique. Procedia Computer Science, 2016, 86, 79-82.	1.2	0
35	Dependence of Current and Magnetic Field on Spin Transfer Induced Noise in CPP-GMR read Heads. Procedia Computer Science, 2016, 86, 27-30.	1.2	1
36	Design and Micromagnetic Simulation of Fe/ <i>L</i> >1<sub>0</sub>-FePt/Fe Trilayer for Exchange Coupled Composite Bit Patterned Media at Ultrahigh Areal Density. Advances in Materials Science and Engineering, 2015, 2015, 1-5.	1.0	8

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37	Electrical and absorption properties of fresh cassava tubers and cassava starch. Journal of Instrumentation, 2015, 10, P09004-P09004.	0.5	6
38	The temperature and electromagnetic field distributions of heat-assisted magnetic recording for bit-patterned media at ultrahigh areal density. Journal of Applied Physics, 2015, 117, 17C501.	1.1	6
39	A novel technique to detect effects of electromagnetic interference by electrostatic discharge simulator to test parameters of tunneling magnetoresistive read heads. Journal of Applied Physics, 2015, 117, 17A908.	1.1	9
40	Modeling of switching energy of magnetic tunnel junction devices with tilted magnetization. Journal of Magnetism and Magnetic Materials, 2015, 381, 220-225.	1.0	8
41	The dimensional effects of windowing on crosstalk for high speed hard disk drive interconnects. International Journal of RF and Microwave Computer-Aided Engineering, 2014, 24, 217-222.	0.8	3
42	Low-complexity high-rate irregular QC-LDPC codes with applications to PR2 and EPR2 channels. Transactions on Emerging Telecommunications Technologies, 2014, 25, 370-382.	2.6	0
43	THERMAL IMAGE REFINEMENT APPROACH FOR SCRATCHES ON A MAGNETIC DISK EVALUATED AT VARIOUS ANGLES. Instrumentation Science and Technology, 2013, 41, 365-381.	0.9	2
44	Crosstalk Suppression in High Data Rate and High Density Hard Disk Drive Interconnects Using Magnetic Composites. Frequenz, 2013, 67, .	0.6	3
45	Magnetic Instability in Tunneling Magnetoresistive Heads Due to Temperature Increase During Electrostatic Discharge. IEEE Transactions on Device and Materials Reliability, 2012, 12, 570-575.	1.5	10
46	A Practical Crosstalk Reduction Technique Applied to High-Density Hard Disk Interconnecting Assembly Traces. IEEE Transactions on Magnetics, 2011, 47, 4014-4017.	1.2	2
47	Instability of storage and temperature increment in nanopillars due to human body model electrostatic discharge. Journal of Electrostatics, 2011, 69, 618-622.	1.0	1
48	Dependence of discharge path on breakdown characteristic of tunneling magnetoresistive read heads. Journal of Electrostatics, 2010, 68, 503-507.	1.0	6
49	EFFECT OF RADIO FREQUENCY IDENTIFICATION ON RECORDING HEAD IN WRITING PROCESS AT 125 KHZ LOW FREQUENCY. International Journal of Modern Physics B, 2009, 23, 3619-3624.	1.0	0
50	ELECTROSTATIC DISCHARGE EFFECTS ON GMR RECORDING HEADS USING A WAVELET TRANSFORM APPROACH. International Journal of Modern Physics B, 2009, 23, 3567-3572.	1.0	0
51	ELECTROSTATIC DISCHARGE EFFECT ON TMR RECORDING HEAD: A FLEX ON SUSPENSION CAPACITANCE APPROACH. International Journal of Modern Physics B, 2009, 23, 3586-3590.	1.0	2
52	OPTIMIZATION OF PHASE CHANGE MEMORY WITH THIN METAL INSERTED LAYER ON MATERIAL PROPERTIES. International Journal of Modern Physics B, 2009, 23, 3625-3630.	1.0	2
53	ESD Affected GMR Head Detection by Using Machine Model: Wavelet Transform Technique Approach. Solid State Phenomena, 2009, 152-153, 443-446.	0.3	0
54	Dependence of Flex on Suspension Capacitance on Human-Body-Model-Electrostatic-Discharge Affected TMR Head. Solid State Phenomena, 2009, 152-153, 439-442.	0.3	2

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55	Detection of nanoscale ESD effect on GMR head signal using the wavelet transform technique: HBM and CDM cases. <i>Journal of Electrostatics</i> , 2009, 67, 583-589.	1.0	1
56	Anomalous magnetic responsiveness of giant magnetoresistive heads under specific electromagnetic interference frequencies using quasistatic tester. <i>Journal of Applied Physics</i> , 2008, 103, 07F538.	1.1	5
57	An Experimental Study of Head Instabilities in TMR Sensors for Magnetic Recording Heads with Adaptive Flying Height. <i>IEICE Transactions on Electronics</i> , 2008, E91-C, 1958-1965.	0.3	3
58	Synthetic dynamic test of base line popping noise in recording heads. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, 192-194.	1.0	0
59	Testing parameters of TMR heads affected by dynamic-tester induced EMI. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e142-e144.	1.0	5
60	Segregation of controlled and failed heads using an integration of noise amplitudes in a limited range of harmonic frequency. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e145-e148.	1.0	0
61	Study on Complex Permittivity of Tropical Thai Fruits. <i>Journal of Applied Sciences</i> , 2007, 7, 1009-1012.	0.1	1
62	A study of noise effects due to the diode protection for shield resistance measurement of GMR recording heads. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 2941-2943.	1.2	3
63	Investigation of ESD Prevention for Deshunted GMR Heads. <i>IEICE Transactions on Electronics</i> , 2005, E88-C, 1343-1347.	0.3	1
64	Effect of deshunting sequences of magnetic head using charged device model. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 2307-2309.	1.0	2
65	Annealing effects on GMR multilayer films. <i>Sensors and Actuators A: Physical</i> , 2000, 81, 40-43.	2.0	10
66	Effects of impurities and annealing on AMR and GMR of evaporated multilayer films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 198-199, 85-88.	1.0	2
67	ESD effect of deshunting sequences to recording heads using human body model. , 0, , .		0
68	Confined-Chalcogenide Phase Change Memory with Thin Metal Interlayer for Low Reset Current by Finite Element Modeling. <i>Solid State Phenomena</i> , 0, 152-153, 399-402.	0.3	3
69	An EMI Immunity Study of TMR Heads in Quasi-Static Tester due to the Direction of Sweeping Frequency. <i>Solid State Phenomena</i> , 0, 152-153, 447-450.	0.3	4
70	Investigation on Magnetic Properties of $\text{FePt}/\text{Fe}$ Graded Media Multilayer. <i>Advanced Materials Research</i> , 0, 802, 189-193.	0.3	3