

# Apirat Siritaratiwat

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

519  
citations

933447  
10  
h-index

752698  
20  
g-index

70  
all docs

70  
docs citations

70  
times ranked

476  
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Energies</i> , 2019, 12, 553.	3.1	85
2	A Hybrid DA-PSO Optimization Algorithm for Multiobjective Optimal Power Flow Problems. <i>Energies</i> , 2018, 11, 2270.	3.1	62
3	Planar microwave sensor for detection and discrimination of aqueous organic and inorganic solutions. <i>Sensors and Actuators B: Chemical</i> , 2018, 271, 300-305.	7.8	35
4	Optimization of Electric Vehicle Charging Scheduling in Urban Village Networks Considering Energy Arbitrage and Distribution Cost. <i>Energies</i> , 2020, 13, 349.	3.1	35
5	An Improved DA-PSO Optimization Approach for Unit Commitment Problem. <i>Energies</i> , 2019, 12, 2335.	3.1	29
6	Microwave Sensor for Nitrate and Phosphate Concentration Sensing. <i>IEEE Sensors Journal</i> , 2019, 19, 2950-2955.	4.7	24
7	Increasing Benefits in High PV Penetration Distribution System by Using Battery Energy Storage and Capacitor Placement Based on Salp Swarm Algorithm. <i>Energies</i> , 2019, 12, 4817.	3.1	19
8	Increasing PV penetration level in low voltage distribution system using optimal installation and operation of battery energy storage. <i>Cogent Engineering</i> , 2019, 6, .	2.2	12
9	Implementation of Static Line Voltage Stability Indices for Improved Static Voltage Stability Margin. <i>Journal of Electrical and Computer Engineering</i> , 2019, 2019, 1-14.	0.9	12
10	Structural Design of Partitioned Stator Doubly Salient Permanent Magnet Generator for Power Output Improvement. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-8.	1.8	11
11	Annealing effects on GMR multilayer films. <i>Sensors and Actuators A: Physical</i> , 2000, 81, 40-43.	4.1	10
12	Magnetic Instability in Tunneling Magnetoresistive Heads Due to Temperature Increase During Electrostatic Discharge. <i>IEEE Transactions on Device and Materials Reliability</i> , 2012, 12, 570-575.	2.0	10
13	A novel technique to detect effects of electromagnetic interference by electrostatic discharge simulator to test parameters of tunneling magnetoresistive read heads. <i>Journal of Applied Physics</i> , 2015, 117, 17A908.	2.5	9
14	Optimal Stator Design of Doubly Salient Permanent Magnet Generator for Enhancing the Electromagnetic Performance. <i>Energies</i> , 2019, 12, 3201.	3.1	9
15	Characterization Model of Dielectric Properties of Cane Sugar Solution Over 0.5–14 GHz. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	9
16	Design and Micromagnetic Simulation of Fe <sub>1</sub> -FePt/Fe Trilayer for Exchange Coupled Composite Bit Patterned Media at Ultrahigh Areal Density. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-5.	1.8	8
17	Modeling of switching energy of magnetic tunnel junction devices with tilted magnetization. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 381, 220-225.	2.3	8
18	Electromagnetic interference-induced instability in CPP-GMR read heads. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 412, 42-48.	2.3	8

#	ARTICLE	IF	CITATIONS
19	A comparison of the effectiveness of voltage stability indices in an optimal power flow. IEE Transactions on Electrical and Electronic Engineering, 2019, 14, 534-544.	1.4	8
20	An Improvement of Magnetic Flux Linkage in Electrical Generator using the novel Permanent Magnet Arrangement. Acta Physica Polonica A, 2018, 133, 642-644.	0.5	8
21	A novel method for solving multi-stage distribution substation expansion planning. Energy Procedia, 2019, 156, 371-383.	1.8	7
22	Dependence of discharge path on breakdown characteristic of tunneling magnetoresistive read heads. Journal of Electrostatics, 2010, 68, 503-507.	1.9	6
23	Electrical and absorption properties of fresh cassava tubers and cassava starch. Journal of Instrumentation, 2015, 10, P09004-P09004.	1.2	6
24	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.	2.5	6
25	Testing parameters of TMR heads affected by dynamic-tester induced EMI. Journal of Magnetism and Magnetic Materials, 2007, 316, e142-e144.	2.3	5
26	Anomalous magnetic responsiveness of giant magnetoresistive heads under specific electromagnetic interference frequencies using quasistatic tester. Journal of Applied Physics, 2008, 103, 07F538.	2.5	5
27	An EMI Immunity Study of TMR Heads in Quasi-Static Tester due to the Direction of Sweeping Frequency. Solid State Phenomena, 0, 152-153, 447-450.	0.3	4
28	Effect of Concrete Duct Bank Dimension with Thermal Properties of Concrete on Sensitivity of Underground Power Cable Ampacity. , 2018, , .		4
29	Optimal Grid-Connected with Multi-Solar PV Placement and Sizing for Power Loss Reduction and Voltage Profile Improvement. , 2018, , .		4
30	Temperature dependence of magnetic properties on switching energy in magnetic tunnel junction devices with tilted magnetization. Applied Surface Science, 2019, 472, 36-39.	6.1	4
31	Unstable Playback Response of CPP-GMR Read Head Induced by Electromagnetic Interference: Structural Dependence. IEEE Transactions on Magnetics, 2019, 55, 1-6.	2.1	4
32	A study of noise effects due to the diode protection for shield resistance measurement of GMR recording heads. IEEE Transactions on Magnetics, 2005, 41, 2941-2943.	2.1	3
33	Confined-Chalcogenide Phase Change Memory with Thin Metal Interlayer for Low Reset Current by Finite Element Modeling. Solid State Phenomena, 0, 152-153, 399-402.	0.3	3
34	Crosstalk Suppression in High Data Rate and High Density Hard Disk Drive Interconnects Using Magnetic Composites. Frequenz, 2013, 67, .	0.9	3
35	Investigation on Magnetic Properties of $\text{FePt}/\text{Fe}$ Graded Media Multilayer. Advanced Materials Research, 0, 802, 189-193.	0.3	3
36	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.	1.2	3

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37	Playback signal distortion in CPP-GMR read heads due to induced electromagnetic interference. Journal of Magnetism and Magnetic Materials, 2018, 465, 14-18.	2.3	3
38	Optimal planning of energy storage system using modified differential evolution algorithm. Energy Procedia, 2019, 156, 192-200.	1.8	3
39	An Experimental Study of Head Instabilities in TMR Sensors for Magnetic Recording Heads with Adaptive Flying Height. IEICE Transactions on Electronics, 2008, E91-C, 1958-1965.	0.6	3
40	Effects of impurities and annealing on AMR and GMR of evaporated multilayer films. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 85-88.	2.3	2
41	Effect of deshunting sequences of magnetic head using charged device model. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2307-2309.	2.3	2
42	ELECTROSTATIC DISCHARGE EFFECT ON TMR RECORDING HEAD: A FLEX ON SUSPENSION CAPACITANCE APPROACH. International Journal of Modern Physics B, 2009, 23, 3586-3590.	2.0	2
43	OPTIMIZATION OF PHASE CHANGE MEMORY WITH THIN METAL INSERTED LAYER ON MATERIAL PROPERTIES. International Journal of Modern Physics B, 2009, 23, 3625-3630.	2.0	2
44	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
45	A Practical Crosstalk Reduction Technique Applied to High-Density Hard Disk Interconnecting Assembly Traces. IEEE Transactions on Magnetics, 2011, 47, 4014-4017.	2.1	2
46	THERMAL IMAGE REFINEMENT APPROACH FOR SCRATCHES ON A MAGNETIC DISK EVALUATED AT VARIOUS ANGLES. Instrumentation Science and Technology, 2013, 41, 365-381.	1.8	2
47	Structural Size Effect with Altered Temperature on MgO-based Magnetic Tunnel Junction Device During Current Flow. Procedia Computer Science, 2016, 86, 200-203.	2.0	2
48	Estimation of Solar Radiation and Optimal Tilt Angles of Solar Photovoltaic for Khon Kaen University. , 2018, , .		2
49	Simulation of magnetic footprints for heat assisted magnetic recording. EPJ Applied Physics, 2017, 78, 20301.	0.7	2
50	Detection of nanoscale ESD effect on GMR head signal using the wavelet transform technique: HBM and CDM cases. Journal of Electrostatics, 2009, 67, 583-589.	1.9	1
51	Instability of storage and temperature increment in nanopillars due to human body model electrostatic discharge. Journal of Electrostatics, 2011, 69, 618-622.	1.9	1
52	Electromagnetic Interference Effects on Stability of Tunneling Magnetoresistive Read Heads. IEEE Magnetics Letters, 2016, 7, 1-4.	1.1	1
53	Dependence of Current and Magnetic Field on Spin Transfer Induced Noise in CPP-GMR read Heads. Procedia Computer Science, 2016, 86, 27-30.	2.0	1
54	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.	2.3	1

#	ARTICLE	IF	CITATIONS
55	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.	3.0	1
56	Optimal Sizing of CPP-GMR Read Sensors for Magnetic Recording Densities of 1â€“4 Tb/inÂ². IEEE Access, 2021, 9, 130758-130766.	4.2	1
57	Investigation of ESD Prevention for Deshunted GMR Heads. IEICE Transactions on Electronics, 2005, E88-C, 1343-1347.	0.6	1
58	Study on Complex Permittivity of Tropical Thai Fruits. Journal of Applied Sciences, 2007, 7, 1009-1012.	0.3	1
59	ESD effect of deshunting sequences to recording heads using human body model. , 0, , .		0
60	Synthetic dynamic test of base line popping noise in recording heads. Journal of Magnetism and Magnetic Materials, 2007, 316, 192-194.	2.3	0
61	Segregation of controlled and failed heads using an integration of noise amplitudes in a limited range of harmonic frequency. Journal of Magnetism and Magnetic Materials, 2007, 316, e145-e148.	2.3	0
62	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.	2.0	0
63	ELECTROSTATIC DISCHARGE EFFECTS ON GMR RECORDING HEADS USING A WAVELET TRANSFORM APPROACH. International Journal of Modern Physics B, 2009, 23, 3567-3572.	2.0	0
64	ESD Affected GMR Head Detection by Using Machine Model: Wavelet Transform Technique Approach. Solid State Phenomena, 2009, 152-153, 443-446.	0.3	0
65	Lowâ€complexity highâ€rate irregular QCâ€LDPC codes with applications to PR2 and EPR2 channels. Transactions on Emerging Telecommunications Technologies, 2014, 25, 370-382.	3.9	0
66	Angular Dependence of Spin Transfer Switching in Spin Valve Nanopillar Based Heusler Alloy. Advances in Materials Science and Engineering, 2016, 2016, 1-7.	1.8	0
67	Windowing and Groove Depth Variation Techniques for Crosstalk Reduction on Six-Line Suspension Assembly Interconnect Trace in Magnetic Recording Heads. IEEE Magnetism Letters, 2016, 7, 1-4.	1.1	0
68	Networking Radio Broadcast Controlled by using Audio Mute Clock. Procedia Computer Science, 2016, 86, 71-74.	2.0	0
69	Crosstalk Reduction on 6-line Suspension Assembly Interconnect Trace in Head Gimbal Assembly by using Guard Technique. Procedia Computer Science, 2016, 86, 79-82.	2.0	0
70	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.	2.5	0