

# Euiseok Hwang

## List of Publications by Year in descending order

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docs citations

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times ranked

410  
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#	ARTICLE	IF	CITATIONS
1	Capacity Advantage of Array-Reader-Based Magnetic Recording (ARMR) for Next Generation Hard Disk Drives. IEEE Transactions on Magnetics, 2014, 50, 155-161.	2.1	68
2	Signal Processing for Near 10 Tbit/in <sup>2</sup> Density in Two-Dimensional Magnetic Recording (TDMR). IEEE Transactions on Magnetics, 2010, 46, 1813-1816.	2.1	60
3	TDMR Platform Simulations and Experiments. IEEE Transactions on Magnetics, 2009, 45, 3837-3843.	2.1	52
4	Hybrid Load Forecasting for Mixed-Use Complex Based on the Characteristic Load Decomposition by Pilot Signals. IEEE Access, 2019, 7, 12297-12306.	4.2	50
5	Interlaced Magnetic Recording. IEEE Transactions on Magnetics, 2017, 53, 1-7.	2.1	26
6	A Unified Approach for Compression and Authentication of Smart Meter Reading in AMI. IEEE Access, 2019, 7, 34383-34394.	4.2	24
7	Performance Evaluation of Array-Reader-Based Magnetic Recording with a Drive-Tap Measurement Platform. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	22
8	A New Efficient Error Correctible Modulation Code for Holographic Data Storage. Japanese Journal of Applied Physics, 2002, 41, 1763-1766.	1.5	20
9	Three-Dimensional Error Correction Schemes for Holographic Data Storage. Japanese Journal of Applied Physics, 2005, 44, 3529-3533.	1.5	20
10	A New Two-Dimensional Pseudo-Random Modulation Code for Holographic Data Storage. Japanese Journal of Applied Physics, 2003, 42, 1010-1013.	1.5	19
11	Modeling of 2-D Magnetic Recording and a Comparison of Data Detection Schemes. IEEE Transactions on Magnetics, 2011, 47, 3685-3690.	2.1	19
12	Time-Frequency Mask Estimation Based on Deep Neural Network for Flexible Load Disaggregation in Buildings. IEEE Transactions on Smart Grid, 2021, 12, 3242-3251.	9.0	19
13	Two-track joint detection for two-dimensional magnetic recording (TDMR)., 2015, , .		18
14	Signal processing for real-time identification of similar metals by laser-induced breakdown spectroscopy. Plasma Science and Technology, 2019, 21, 034011.	1.5	15
15	Investigation of Two-Dimensional Magnetic Recording (TDMR) With Position and Timing Uncertainty at 4 Tb/in <sup>2</sup> . IEEE Transactions on Magnetics, 2011, 47, 4775-4780.	2.1	14
16	Skew-Dependent Performance Evaluation of Array-Reader-Based Magnetic Recording With Dual-Reader. IEEE Transactions on Magnetics, 2015, 51, 1-7.	2.1	13
17	Connected electric vehicles for flexible vehicle-to-grid (V2G) services. , 2017, , .		13
18	A Novel Cross-Layer Authentication Protocol for the Internet of Things. IEEE Access, 2020, 8, 196135-196150.	4.2	13

#	ARTICLE	IF	CITATIONS
19	Weighted-averaging-based classification of laser-induced breakdown spectroscopy measurements using most informative spectral lines. <i>Plasma Science and Technology</i> , 2020, 22, 015501.	1.5	12
20	Deep Reinforcement Learning-Based Smart Joint Control Scheme for On/Off Pumping Systems in Wastewater Treatment Plants. <i>IEEE Access</i> , 2021, 9, 95360-95371.	4.2	12
21	High spatial resolution imaging of melanoma tissue by femtosecond laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 179, 106090.	2.9	12
22	Front-end signal processing for metal scrap classification using online measurements based on laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 184, 106282.	2.9	12
23	Load Guided Signal-Based Two-Stage Charging Coordination of Plug-In Electric Vehicles for Smart Buildings. <i>IEEE Access</i> , 2019, 7, 144548-144560.	4.2	11
24	Soft classification scheme with pre-cluster-based regression for identification of same-base alloys using laser-induced breakdown spectroscopy. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 203, 104072.	3.5	11
25	Clustering-Based Self-Imputation of Unlabeled Fault Data in a Fleet of Photovoltaic Generation Systems. <i>Energies</i> , 2020, 13, 737.	3.1	9
26	Symmetric Information Rate of an Ideal Readback Two Dimensional Magnetic Recording (TDMR) Channel with Random Voronoi Grains. , 2010, , .		8
27	Frequency Selective Auto-Encoder for Smart Meter Data Compression. <i>Sensors</i> , 2021, 21, 1521.	3.8	8
28	A Modified Low-Density Parity-Check Decoder for Holographic Data Storage System. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 3812-3815.	1.5	7
29	Iterative Cross-Entropy Encoding for Memory Systems with Stuck-At Errors. , 2011, , .		7
30	Mitigation of Noise Correlation for Two-Dimensional Detection in Array-Reader Based Magnetic Recording. <i>IEEE Magnetics Letters</i> , 2017, 8, 1-4.	1.1	7
31	Machine Learning-based Physical Layer Authentication using Neighborhood Component Analysis in MIMO Wireless Communications. , 2019, , .		7
32	Iterative volumetric ECC schemes for holographic data storage. , 2004, , .		6
33	Generalized Interlaced Magnetic Recording With Flexible Inter-Track Interference Cancellation. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	6
34	Joint Equalization of Asynchronous Reads in Array-Reader-Based Interlaced Magnetic Recording. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-7.	2.1	6
35	Signal Model for Shingled Magnetic Recording Based on Data Dependent Erase Band Analysis Under Track Squeeze. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 734-738.	2.1	5
36	Asynchronous Inter-Track Interference Cancellation (A-ITIC) for Interlaced Magnetic Recording (IMR). , 2017, , .		5

#	ARTICLE	IF	CITATIONS
37	LDPC Codes for Memory Systems with Scrubbing. , 2010, , .		4
38	Scrubbing with partial side information for radiation-tolerant memory. , 2010, , .		4
39	Poster: Electric vehicle network bidirectional charging for flexible vehicle-to-grid services. , 2016, , .		4
40	Secure Multiple Access Based on Multicarrier CDMA With Induced Random Flipping. IEEE Transactions on Vehicular Technology, 2017, 66, 5099-5108.	6.3	4
41	Skew-Aware Joint Multi-Track Equalization for Array Reader-Based Interlaced Magnetic Recording. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	4
42	Normalized Residue Analysis for Deep Learning Based Probabilistic Forecasting of Photovoltaic Generations. , 2020, , .		4
43	Lightweight Physical Layer Aided Key Agreement and Authentication for the Internet of Things. Electronics (Switzerland), 2021, 10, 1730.	3.1	4
44	Beamforming-based partial field decomposition in NAH. Journal of Sound and Vibration, 2008, 314, 867-884.	3.9	3
45	Additive encoding low-density parity-check (AE-LDPC) codes for two-dimensional magnetic recording (TDMR). , 2012, , .		3
46	Smart Day-ahead Pump Scheduling Scheme for Electricity Cost Optimization in a Sewage Treatment Plant. , 2019, , .		3
47	Probabilistic Forecasting Based Joint Detection and Imputation of Clustered Bad Data in Residential Electricity Loads. Energies, 2021, 14, 165.	3.1	3
48	Extended Kalman Filter Based Acquisition Timing Recovery for Magnetic Recording Read Channels. , 2008, , .		2
49	Adaptive Asynchronous Inter-Track Interference Cancellation for Interlaced Magnetic Recording with Random Frequency Offsets. IEEE Transactions on Magnetics, 2018, 54, 1-8.	2.1	2
50	Dynamic Key Update Strategy in Physical-Layer Challenge-Response Authentication. , 2019, , .		2
51	Joint Multi-Level Readback for Array-Reader-Based Interlaced Magnetic Recording. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	2
52	Vehicle-to-Building Availability Analysis based on the Flexible Building Guide and the Vehicle Fleet Modeling Associated with the Building Category. KIISE Transactions on Computing Practices, 2018, 24, 582-588.	0.1	2
53	Real-time video demonstration of holographic disk data storage system. , 2006, , .		1
54	Channel Data Retrieval in Page-Based Holographic Data Storage. Japanese Journal of Applied Physics, 2006, 45, 1285-1287.	1.5	1

#	ARTICLE	IF	CITATIONS
55	Advanced channel signal processing for multi-track or multi-wordline data storage systems. , 2015, , .		1
56	Secure multicarrier DS/SS with induced random flipping. , 2016, , .		1
57	Cost benefit analysis of public service electric vehicles with vehicle-to-grid (V2G) capability. , 2016, , .		1
58	Compressive sensing based power signal compression in advanced metering infrastructure. , 2017, , .		1
59	Performance Analysis of Compressive Sensing Based Physical Layer Authentication for AMI. , 2018, , .		1
60	Hybrid Day-ahead Load Forecasting with Atypical Residue based Gaussian Process Regression. , 2018, , .		1
61	Single-reader dual-track readback scheme for synchronized interlaced magnetic recording. AIP Advances, 2019, 9, 125240.	1.3	1
62	On the Error Probability of Support Recovery for Orthogonal Matching Pursuit With a Random Measurement Matrix. IEEE Access, 2020, 8, 95503-95511.	4.2	1
63	Likelihood based Wavelength Selection for Sorting Metals by Laser-induced Breakdown Spectroscopy. , 2016, , .		1
64	Physical Layer Aided Authentication and Key Agreement for the Internet of Things. , 2020, , .		1
65	Radio Frequency Signature based Implicit Object Movement Detection in an Indoor Environment. , 2021, , .		1
66	Code-word complementing block modulation code for holographic data storage. , 0, , .		0
67	Real-time Video Demonstration of Holographic Disk Data Storage System. , 0, , .		0
68	A multibit-per-cell memory model and nonbinary LDPC codes. , 2010, , .		0
69	Flexible Inter-Track Interference Cancellation for Generalized Interlaced Magnetic Recording.. , 2018, , .		0
70	Price Control-based Decentralized Electric Vehicle Charging Coordination by Arbitration Type Aggregators for Smart Buildings. , 2021, , .		0
71	Hybrid Load Forecasting Model based on Atypical Residual of Meteorological Information. KIISE Transactions on Computing Practices, 2019, 25, 52-57.	0.1	0
72	A Smart Joint Coordination Scheme for Operating Pumps in a Wastewater Treatment Plant. KIISE Transactions on Computing Practices, 2020, 26, 378-383.	0.1	0

#	ARTICLE	IF	CITATIONS
73	Inferring Socio-Demographic Information Using Smart Meter Data by Transfer Learning. , 2022, , .		0