

Praveen Kumar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/466702/publications.pdf>

Version: 2024-02-01

414
papers

10,610
citations

53794

45
h-index

53230

85
g-index

418
all docs

418
docs citations

418
times ranked

12441
citing authors

#	ARTICLE	IF	CITATIONS
1	Core Loss Estimation for an Inverter-Fed Induction Motor With More Accurate Realisation of Material Non-Linearity and Impact of Hysteresis Minor Loops. IEEE Transactions on Energy Conversion, 2022, 37, 327-336.	5.2	5
2	RT-HIL verification of FPGA-based communication-assisted adaptive relay for microgrid protection. Electrical Engineering, 2022, 104, 1277-1287.	2.0	3
3	Antecedent Conditions Control Thresholds of Tileâ€™Runoff Generation and Nitrogen Export in Intensively Managed Landscapes. Water Resources Research, 2022, 58, .	4.2	15
4	REWTCrunch: A Modeling Framework for Vegetation Induced Reactive Zone Processes in the Critical Zone. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	2
5	Oral Application of Colostrum and Motherâ€™s Own Milk in Preterm Infantsâ€™A Randomized, Controlled Trial. Indian Journal of Pediatrics, 2022, 89, 579-586.	0.8	11
6	Three-hourly versus two-hourly feeding interval in stable preterm infants: an updated systematic review and meta-analysis of randomized controlled trials. European Journal of Pediatrics, 2022, 181, 2075-2086.	2.7	4
7	Characterizing Sustained Use of Cleaner Cooking Fuel in Rural Poor Households of South India. Earth, 2022, 3, 313-323.	2.2	4
8	Controllable Optical Vortex Array for Image Encoding. IEEE Photonics Technology Letters, 2022, 34, 521-524.	2.5	22
9	Color image encryption using vectorial light field through a compact optical set-up. Journal of Optics (United Kingdom), 2022, 24, 064017.	2.2	4
10	Impact of V2G Communication on Grid Node Voltage at Charging Station in a Smart Grid Scenario. IEEE Systems Journal, 2021, 15, 3749-3758.	4.6	12
11	A Fuzzy Logic and Artificial Neural Network-Based Intelligent Controller for a Vehicle-to-Grid System. IEEE Systems Journal, 2021, 15, 3301-3311.	4.6	20
12	Role of Grain Boundary Sliding in Structural Integrity of Cu-Filled Through Si Via During Isothermal Annealing. Journal of Electronic Materials, 2021, 50, 767-778.	2.2	5
13	Signatures of Hydrologic Function Across the Critical Zone Observatory Network. Water Resources Research, 2021, 57, e2019WR026635.	4.2	31
14	Creep Micromechanics in Meso-Length Scale Samples. Acta Materialia, 2021, 205, 116535.	7.9	5
15	Measurement of multi-frequency dispersions of Electromagnetically Induced Transparency windows using Spatial Light Modulator in rubidium vapor. Optik, 2021, 225, 165707.	2.9	3
16	Hydraulic redistribution buffers climate variability and regulates grassâ€™tree interactions in a semiarid riparian savanna. Ecohydrology, 2021, 14, e2271.	2.4	7
17	Developing an Evaluation Model for Forecasting of Real Estate Prices. Lecture Notes in Electrical Engineering, 2021, , 619-627.	0.4	3
18	Digital Brain Building a Key to Improve Cognitive Functions by an EEGâ€™Controlled Videogames as Interactive Learning Platform. Advances in Intelligent Systems and Computing, 2021, , 241-252.	0.6	1

#	ARTICLE	IF	CITATIONS
19	Qualitative and Quantitative Analysis of Different Inductance Measurement Techniques for IPM Synchronous Machines. IEEE Transactions on Energy Conversion, 2021, 36, 3305-3316.	5.2	1
20	Stability of Cu-islands formed on Si substrate via "dewetting"™ under subsequent thermal cycling. Nanotechnology, 2021, 32, 195703.	2.6	3
21	Simple model for mean stress in turbulent boundary layers. Physical Review Fluids, 2021, 6, .	2.5	9
22	Arbitrary Vector Beam Encoding Using Single Modulation for Information Security Applications. IEEE Photonics Technology Letters, 2021, 33, 243-246.	2.5	20
23	Polarization-Encoded Fully-Phase Encryption Using Transport-of-Intensity Equation. Electronics (Switzerland), 2021, 10, 969.	3.1	5
24	Renaissance of Alternate Finance: Bibliometric Visualization of Private Equity and Venture Capital. Journal of Wealth Management, 2021, 24, 114-128.	0.8	1
25	Influence of FSW Process Parameters on Formability and Mechanical Properties of Tailor Welded Blanks AA6082-T6 and AA5083-O Using RSM with GRA-PCA Approach. Transactions of the Indian Institute of Metals, 2021, 74, 1943-1968.	1.5	7
26	Routine prefeed gastric aspiration in preterm infants: a systematic review and meta-analysis. European Journal of Pediatrics, 2021, 180, 2367-2377.	2.7	8
27	Association of personal network attributes with clean cooking adoption in rural South India. Environmental Research Letters, 2021, 16, 064087.	5.2	6
28	A New Magnetic Structure of Unipolar Rectangular Coils in WPT Systems to Minimize the Ferrite Volume While Maintaining Maximum Coupling. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2072-2076.	3.0	9
29	Techno-commercial analysis of sustainable E-bus-based public transit systems: An Indian case study. Renewable and Sustainable Energy Reviews, 2021, 144, 111033.	16.4	10
30	Ensuring administration of first dose of antibiotics within the golden hour of management in neonates with sepsis. BMJ Open Quality, 2021, 10, e001365.	1.1	3
31	Implementing a three-hourly feeding schedule in stable preterm infants to decrease maternal fatigue. BMJ Open Quality, 2021, 10, e001439.	1.1	0
32	Rationalising oxygen usage in a level II special newborn care unit in Madhya Pradesh, India. BMJ Open Quality, 2021, 10, e001386.	1.1	5
33	Array formation of optical vortices using in-line phase modulation. Optics Communications, 2021, 493, 127020.	2.1	11
34	A study on influence of eco-friendly technologies in hospitality industry. Journal of Physics: Conference Series, 2021, 1950, 012024.	0.4	1
35	Introducing Water Electrolithography. ACS Omega, 2021, 6, 25692-25701.	3.5	2
36	Near-tip residual stress as an independent load interaction mechanism. International Journal of Fatigue, 2021, 151, 106364.	5.7	10

#	ARTICLE	IF	CITATIONS
37	Formation of singular light fields using phase calibrated spatial light modulator. Optics and Lasers in Engineering, 2021, 146, 106720.	3.8	23
38	Co-Creating a "Sustainable New Normal" for Social Work and Beyond: Embracing an Ecosocial Worldview. Sustainability, 2021, 13, 10941.	3.2	6
39	Integrative Analysis to Identify Genes Associated with Stemness and Immune Infiltration in Glioblastoma. Cells, 2021, 10, 2765.	4.1	6
40	Caffeine Duration for Apnea of Prematurity: All Bets Are Off!. Indian Journal of Pediatrics, 2021, 88, 1169.	0.8	0
41	Spatial variation of heavy metal contamination in roadside soil from hilly terrain of the north-western Himalaya. Chemistry and Ecology, 2021, 37, 850-865.	1.6	4
42	Rise and Fall of Therapeutic Hypothermia in Low-Resource Settings: Lessons from the HELIX Trial: Correspondence. Indian Journal of Pediatrics, 2021, , 1.	0.8	0
43	Phase response optimization of a liquid crystal spatial light modulator with partially coherent light. Applied Optics, 2021, 60, 10795.	1.8	15
44	Validation of visual estimation of neonatal jaundice in low-income and middle-income countries: a multicentre observational cohort study. BMJ Open, 2021, 11, e048145.	1.9	5
45	Speed Estimation Technique Using Modified Stator Current Error-Based MRAS for Direct Torque Controlled Induction Motor Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1223-1235.	5.4	25
46	Effect of Thermomigration "Electromigration Coupling on Mass Transport in Cu Thin Films. Journal of Electronic Materials, 2020, 49, 96-108.	2.2	3
47	Mechanical Reliability of Photovoltaic Cells under Cyclic Thermal Loading. Journal of Electronic Materials, 2020, 49, 59-71.	2.2	2
48	Effect of High Pressure Torsion on Hardness and Electrical Resistivity of Commercially Pure Cu. Advanced Engineering Materials, 2020, 22, 1900547.	3.5	6
49	Self-referenced interference of laterally displaced vortex beams for topological charge determination. Optics Communications, 2020, 459, 125000.	2.1	30
50	Sustainability of soil organic carbon in consolidated gully land in China's Loess Plateau. Scientific Reports, 2020, 10, 16927.	3.3	8
51	Multi-scale quantification and modeling of aged nanostructured silicon-based composite anodes. Communications Chemistry, 2020, 3, .	4.5	30
52	Emerging Importance of Survivin in Stem Cells and Cancer: the Development of New Cancer Therapeutics. Stem Cell Reviews and Reports, 2020, 16, 828-852.	3.8	53
53	Customized High-Temperature Bending with DIC for High-Throughput Determination of Creep Parameters: Technique, Instrumentation, and Optimization. Jom, 2020, 72, 4522-4538.	1.9	8
54	Modeling the Role of Root Exudation in Critical Zone Nutrient Dynamics. Water Resources Research, 2020, 56, e2019WR026606.	4.2	18

#	ARTICLE	IF	CITATIONS
55	Discerning the thermodynamic feasibility of the spontaneous coexistence of multiple functional vegetation groups. <i>Scientific Reports</i> , 2020, 10, 18321.	3.3	3
56	A Subdomain Analytical Model of Coil System With Magnetic Shields of Finite Dimensions and Finite Permeability for Wireless Power Transfer Systems. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-11.	2.1	11
57	A Scalable Silicon Nanowires-Grown-On-Graphite Composite for High-Energy Lithium Batteries. <i>ACS Nano</i> , 2020, 14, 12006-12015.	14.6	66
58	Underpinning the relevancy of the NIRF rankings in higher education management institutions in India. <i>Journal of Public Affairs</i> , 2020, , e2579.	3.1	1
59	Predicting the Water Requirement for Rice Production as Affected by Projected Climate Change in Bihar, India. <i>Water (Switzerland)</i> , 2020, 12, 3312.	2.7	6
60	Role of Social Enterprises in Addressing Energy Poverty: Making the Case for Refined Understanding through Theory of Co-Production of Knowledge and Theory of Social Capital. <i>Sustainability</i> , 2020, 12, 8533.	3.2	6
61	New Insights into Dewetting of Cu Thin Films Deposited on Si. <i>Langmuir</i> , 2020, 36, 5534-5545.	3.5	8
62	FPGA implementation of an Islanding detection technique for microgrid using periodic maxima of superimposed voltage components. <i>IET Generation, Transmission and Distribution</i> , 2020, 14, 1673-1683.	2.5	8
63	Narrowing of electromagnetically induced transparency by using structured coupling light in ⁸⁵ Rb atomic vapor medium. <i>Laser Physics</i> , 2020, 30, 065203.	1.2	8
64	Microstructural equivalence between bending and uniaxial creep. <i>Scripta Materialia</i> , 2020, 186, 99-103.	5.2	11
65	A Unipolar Coil Arrangement Method for Improving the Coupling Coefficient Without Ferrite Material in Wireless Power Transfer Systems. <i>IEEE Transactions on Transportation Electrification</i> , 2020, 6, 497-509.	7.8	17
66	Deterministic Role of Carbon Nanotube-Substrate Coupling for Ultrahigh Actuation in Bilayer Electrothermal Actuators. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29959-29970.	8.0	5
67	Dissemination Challenges of Liquefied Petroleum Gas in Rural India: Perspectives from the Field. <i>Sustainability</i> , 2020, 12, 2327.	3.2	4
68	Affordability, Accessibility, and Awareness in the Adoption of Liquefied Petroleum Gas: A Case-Control Study in Rural India. <i>Sustainability</i> , 2020, 12, 4790.	3.2	10
69	Debates—Does Information Theory Provide a New Paradigm for Earth Science?. <i>Water Resources Research</i> , 2020, 56, e2019WR026398.	4.2	10
70	Fast and sensitive flow-injection mass spectrometry metabolomics by analyzing sample-specific ion distributions. <i>Nature Communications</i> , 2020, 11, 3186.	12.8	50
71	Resistance Spot Welded Al 1100 Alloy with Carbonaceous Interlayers. <i>Materials Science Forum</i> , 2020, 978, 3-11.	0.3	2
72	Debates—Does Information Theory Provide a New Paradigm for Earth Science? Causality, Interaction, and Feedback. <i>Water Resources Research</i> , 2020, 56, e2019WR024940.	4.2	37

#	ARTICLE	IF	CITATIONS
73	A technique for machining thin metallic foils using electromagnetic-mechanical pulsed loading. Engineering Research Express, 2020, 2, 015031.	1.6	1
74	Nano-Structured Composite Anode Enabling Long-Term Cycling Stability for High-Capacity Lithium-Ion Batteries. Small, 2020, 16, e1906812.	10.0	37
75	Stray Loss Model for Induction Motors With Using Equivalent Circuit Parameters. IEEE Transactions on Energy Conversion, 2020, 35, 1036-1045.	5.2	17
76	Bundled Causal History Interaction. Entropy, 2020, 22, 360.	2.2	3
77	A New Reference Flux Linkage Selection Technique for Efficiency Improvement of Direct Torque Controlled IM Drive. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3751-3762.	5.4	12
78	Formation of polarization singularity lattice through dual-phase modulation. Journal of Optics (United Kingdom), 2020, 22, 115701.	2.2	4
79	Fully-phase encryption using transport of intensity equation. , 2020, , .		3
80	Non-interferometric technique to realize vector beams embedded with polarization singularities. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1043.	1.5	30
81	A cutting mechanism map for machining metallic sheets using electric current pulses. Engineering Research Express, 2020, 2, 025035.	1.6	0
82	Design Modifications for Cogging Force Reduction in Linear Permanent Magnet Machines. , 2020, , .		3
83	Non-interferometric technique to realize vector beams embedded with polarization singularities: publisher's note. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1905.	1.5	0
84	Creep of Metallic Materials in Bending. Jom, 2019, 71, 3565-3583.	1.9	12
85	Tuning sample length effect on mass transport in current carrying Cu-Si thin-film systems via interfacial engineering. Nanotechnology, 2019, 30, 485704.	2.6	1
86	Characterizing relative degrees of clumping structure in vegetation canopy using waveform LiDAR. Remote Sensing of Environment, 2019, 232, 111281.	11.0	4
87	Strategic integration of battery energy storage systems with the provision of distributed ancillary services in active distribution systems. Applied Energy, 2019, 253, 113503.	10.1	86
88	Advanced Nanopatterning Using Scanning Probe Technology. Materials Today: Proceedings, 2019, 18, 740-743.	1.8	6
89	The J-dependent rotational Hamiltonian method for analyzing rovibrational spectra: Application to HO ₂ , H ₂ O, and O ₃ . Chemical Physics Letters, 2019, 733, 136700.	2.6	3
90	Effect of Relative Slot-Opening Shift on Cogging Torque and Performance of an Axial Flux Permanent Magnet Machine. Journal of the Institution of Engineers (India): Series B, 2019, 100, 117-122.	1.9	1

#	ARTICLE	IF	CITATIONS
91	Application of bending creep for examining effect of service conditions on creep response of steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 766, 138398.	5.6	7
92	Strategic Allocation and Energy Management of BESS for the Provision of Ancillary Services in Active Distribution Networks. <i>Energy Procedia</i> , 2019, 158, 2972-2978.	1.8	7
93	Optimal Planning of Hybrid Energy Conversion Systems for Annual Energy Cost Minimization in Indian Residential Buildings. <i>Energy Procedia</i> , 2019, 158, 2979-2985.	1.8	14
94	Multiscale Multiphase Lithiation and Delithiation Mechanisms in a Composite Electrode Unraveled by Simultaneous <i>Operando</i> Small-Angle and Wide-Angle X-Ray Scattering. <i>ACS Nano</i> , 2019, 13, 11538-11551.	14.6	40
95	FPGA Based Design and HIL Verification of a Soft-Core Directional-OCR. <i>Electric Power Components and Systems</i> , 2019, 47, 1423-1436.	1.8	2
96	Isotope shifts and band progressions in SO_2 rovibrational energy levels: using quantum theory to extract rotational constants. <i>Molecular Physics</i> , 2019, 117, 2456-2469.	1.7	3
97	Multiple interactions between tree composition and diversity and microbial diversity underly litter decomposition. <i>Geoderma</i> , 2019, 341, 161-171.	5.1	49
98	Failure of thin metallic conductors under electric current loading: Transition from sharp crack to blow-hole. <i>Engineering Fracture Mechanics</i> , 2019, 208, 221-237.	4.3	4
99	Effect of graphene interlayer on resistance spot welded AISI-1008 steel joints. <i>Materials Research Express</i> , 2019, 6, 0865c3.	1.6	17
100	How does capital market respond to Certified Emission Reductions (CERs) announcements in India. <i>Managerial Finance</i> , 2019, 45, 950-965.	1.2	6
101	Analytical Techniques for the Identification and Quantification of Flavonoids. , 2019, , 9-22.		0
102	Selection of Reference Flux Linkage for Direct Torque Control Based Induction Motor Drive in Electric Vehicle Applications. <i>SAE International Journal of Alternative Powertrains</i> , 2019, 8, .	0.8	0
103	Impacts of Subsurface Tile Drainage on Age-Dependent Concentration Dynamics of Inorganic Nitrogen in Soil. <i>Water Resources Research</i> , 2019, 55, 1470-1489.	4.2	24
104	Three-Dimensional Modeling of the Coevolution of Landscape and Soil Organic Carbon. <i>Water Resources Research</i> , 2019, 55, 1218-1241.	4.2	11
105	Predicting the direct and indirect impacts of climate change on malaria in coastal Kenya. <i>PLoS ONE</i> , 2019, 14, e0211258.	2.5	33
106	Accurate characterization of the lowest triplet potential energy surface of SO_2 with a coupled cluster method. <i>Journal of Chemical Physics</i> , 2019, 150, 144303.	3.0	2
107	Image encryption using phase-encoded exclusive-OR operations with incoherent illumination. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 065701.	2.2	20
108	Creep of Cu-Bi Alloys with High Bi Content Near and Above Melting Temperature of Bi. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 2690-2701.	2.2	0

#	ARTICLE	IF	CITATIONS
109	Determining orbital angular momentum of light by analyzing interferogram with conjoined fork-like structures. , 2019, , .		0
110	Transport of probe particles in a polymer network: effects of probe size, network rigidity and probeâ€™polymer interaction. Soft Matter, 2019, 15, 8992-9002.	2.7	39
111	Using Information Flow for Whole System Understanding From Component Dynamics. Water Resources Research, 2019, 55, 8305-8329.	4.2	10
112	Smart public transportation network expansion and its interaction with the grid. International Journal of Electrical Power and Energy Systems, 2019, 105, 365-380.	5.5	16
113	Impact of Sampling in the Operation of Vehicle to Grid and Its Mitigation. IEEE Transactions on Industrial Informatics, 2019, 15, 3923-3933.	11.3	26
114	A Framework for Global Characterization of Soil Properties Using Repeat Hyperspectral Satellite Data. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3308-3323.	6.3	4
115	Integrated assessment of a sustainable microgrid for a remote village in hilly region. Energy Conversion and Management, 2019, 180, 442-472.	9.2	99
116	Design and verification of hardcore reconfigurable relay for islanding detection and subsequent mode adaptation of microgrid. International Transactions on Electrical Energy Systems, 2019, 29, e2807.	1.9	7
117	Species mixture increases production partitioning to belowground in a natural boreal forest. Forest Ecology and Management, 2019, 432, 667-674.	3.2	21
118	Enhanced exclusive-OR and quick response code-based image encryption through incoherent illumination. Applied Optics, 2019, 58, 1408.	1.8	22
119	Self-referenced spiral interferogram using modified lateral shearing Machâ€™Zehnder interferometer. Applied Optics, 2019, 58, 6827.	1.8	18
120	Modified Machâ€™Zehnder interferometer for determining the high-order topological charge of Laguerreâ€™Gaussian vortex beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 1447.	1.5	56
121	What Drives the Voluntary Environmental Reporting (VER): An Examination of CDP India Firms. Journal of Environmental Accounting and Management, 2019, 7, 47-59.	0.5	6
122	Effect of HPT processing followed by long term natural ageing on mechanical and electrical properties of commercially pure Cu. Letters on Materials, 2019, 9, 561-565.	0.7	1
123	Interactions of information transfer along separable causal paths. Physical Review E, 2018, 97, 042310.	2.1	11
124	Critical transition in critical zone of intensively managed landscapes. Anthropocene, 2018, 22, 10-19.	3.3	72
125	Effect of Substrate Composition on Whisker Growth in Sn Coatings. Journal of Electronic Materials, 2018, 47, 4177-4189.	2.2	9
126	Phase-field modeling of grain-boundary grooving and migration under electric current and thermal gradient. Acta Materialia, 2018, 153, 377-390.	7.9	18

#	ARTICLE	IF	CITATIONS
127	Design, Prototyping, and Testing of a Dual-Rotor Motor for Electric Vehicle Application. IEEE Transactions on Industrial Electronics, 2018, 65, 7185-7192.	7.9	32
128	High-efficiency, single-crystalline, p- and n-type Si solar cells: Microstructure and chemical analysis of the glass layer. Solar Energy Materials and Solar Cells, 2018, 178, 52-64.	6.2	13
129	Optimal number of e-buses in the solar-assisted smart public transit system and its failure analysis. IET Electrical Systems in Transportation, 2018, 8, 61-70.	2.4	2
130	Growth of Interfacial Intermetallic Compound Layer in Diffusion-Bonded SAC-Cu Solder Joints During Different Types of Thermomechanical Excursion. Journal of Electronic Materials, 2018, 47, 457-469.	2.2	7
131	PbSe mid-IR photoconductive thin films (part-II): Structural analysis of the functional layer. Journal of Alloys and Compounds, 2018, 735, 1654-1661.	5.5	18
132	A Novel Methodological Framework for the Design of Sustainable Rural Microgrid for Developing Nations. IEEE Access, 2018, 6, 24925-24951.	4.2	79
133	Characterization of Electrospun $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Nanowires With Reduced Preparation Temperature. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	7
134	Epiclytic vegetation abundance, diversity, and composition vary with coarse woody debris decay class and substrate species in boreal forest. Canadian Journal of Forest Research, 2018, 48, 399-411.	1.7	16
135	Linking resource availability and heterogeneity to understory species diversity through succession in boreal forest of Canada. Journal of Ecology, 2018, 106, 1266-1276.	4.0	70
136	Carbon Storage Declines in Old Boreal Forests Irrespective of Succession Pathway. Ecosystems, 2018, 21, 1168-1182.	3.4	27
137	Contactless power transfer system for sealed lead acid battery charging. Wireless Power Transfer, 2018, 5, 20-26.	1.1	3
138	Solid-state diffusion-controlled growth of the phases in the Au-Sn system. Philosophical Magazine, 2018, 98, 20-36.	1.6	19
139	Electric Conversion of a Polluting Gasoline Vehicle into an Electric Vehicle and its Performance and Drive Cycle Analysis. , 2018, , .		3
140	Analytical Model of Surface Mounted Permanent Magnet Motor for Sensitivity Analysis under Manufacturing Tolerances. , 2018, , .		1
141	Cost-Effective Stator Modification Techniques for Cogging Torque Reduction in Axial Flux Permanent Magnet Machines. , 2018, , .		9
142	Modelling of Stray-Load Loss for Medium Power Induction Motors. , 2018, , .		8
143	Patterning Cr Film by Passing Electric Current through a Traversing Pointy Stylus: Introduction to Electrolithography and Its Prospects. , 2018, , .		0
144	Inverse Blech Length Phenomenon in Thin-Film Stripes. Physical Review Applied, 2018, 10, .	3.8	6

#	ARTICLE	IF	CITATIONS
145	Impact of carbon emissions on cost of debt-evidence from India. <i>Managerial Finance</i> , 2018, 44, 1401-1417.	1.2	26
146	Electrical Jointing at Micro- and Nanoscale by Electromigration and Mechanical Nano-Manipulation for Bottom-Up Nano-Assembling. , 2018, , .		0
147	Rate of Change of Frequency Deviation Based Unintentional Islanding Detection for Microgrids. , 2018, , .		6
148	Tuning electromigration-thermomigration coupling in Cu/W Blech structures. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	6
149	INFLUENCE OF ROTOR MAGNET SHAPES ON PERFORMANCE OF AXIAL FLUX PERMANENT MAGNET MACHINES. <i>Progress in Electromagnetics Research C</i> , 2018, 85, 155-165.	0.9	6
150	Steering operational synergies in terrestrial observation networks: opportunity for advancing Earth system dynamics modelling. <i>Earth System Dynamics</i> , 2018, 9, 593-609.	7.1	28
151	Efficiency and performance analysis of DTCâ€based IM drivetrain using variable dcâ€link voltage for electric vehicle applications. <i>IET Electrical Systems in Transportation</i> , 2018, 8, 205-214.	2.4	19
152	Effect of Embedding Cu-Graphene Hybrid Powder into 2-Phase In-Cu Solders on Its Suitability as Metallic Thermal Interface Material. <i>Journal of Electronic Materials</i> , 2018, 47, 4863-4874.	2.2	0
153	Trade-offs and Synergies Between Economic Gains and Plant Diversity Across a Range of Management Alternatives in Boreal Forests. <i>Ecological Economics</i> , 2018, 151, 162-172.	5.7	6
154	A Method for Determining Nonlinear Inductances of Electrical Equivalent Circuit for Three-Phase Induction Motor. <i>Electric Power Components and Systems</i> , 2018, 46, 379-390.	1.8	4
155	Fracture of pre-cracked thin metallic conductors due to electric current induced electromagnetic force. <i>International Journal of Fracture</i> , 2018, 212, 183-204.	2.2	5
156	Fracture of pre-cracked metallic conductors under combined electric current and mechanical loading. <i>International Journal of Fracture</i> , 2018, 212, 167-182.	2.2	7
157	Analysis of axisymmetric boundary layers. <i>Journal of Fluid Mechanics</i> , 2018, 849, 927-941.	3.4	17
158	Prototyping and hardwareâ€inâ€loop verification of OCR. <i>IET Generation, Transmission and Distribution</i> , 2018, 12, 2837-2845.	2.5	5
159	Stochastic lattice-based modelling of malaria dynamics. <i>Malaria Journal</i> , 2018, 17, 250.	2.3	12
160	Impacts of Quaternary History on Critical Zone Structure and Processes: Examples and a Conceptual Model From the Intensively Managed Landscapes Critical Zone Observatory. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	18
161	Wetlandscape Fractal Topography. <i>Geophysical Research Letters</i> , 2018, 45, 6983-6991.	4.0	18
162	Impact of Hydraulic Redistribution on Multispecies Vegetation Water Use in a Semiarid Savanna Ecosystem: An Experimental and Modeling Synthesis. <i>Water Resources Research</i> , 2018, 54, 4009-4027.	4.2	24

#	ARTICLE	IF	CITATIONS
163	Multiyear Load Growth Based Techno-Financial Evaluation of a Microgrid for an Academic Institution. IEEE Access, 2018, 6, 37533-37555.	4.2	30
164	Large-eddy simulation of flow over an axisymmetric body of revolution. Journal of Fluid Mechanics, 2018, 853, 537-563.	3.4	48
165	Dynamic process connectivity explains ecohydrologic responses to rainfall pulses and drought. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8604-E8613.	7.1	36
166	A Numerical Water Tracer Model for Understanding Event-Scale Hydrometeorological Phenomena. Journal of Hydrometeorology, 2018, 19, 947-967.	1.9	8
167	Dynamics of understory biomass, production and turnover associated with long-term overstorey succession in boreal forest of Canada. Forest Ecology and Management, 2018, 427, 152-161.	3.2	24
168	Critical Evaluation of Relative Importance of Stress and Stress Gradient in Whisker Growth in Sn Coatings. Journal of Electronic Materials, 2018, 47, 5229-5242.	2.2	11
169	Examination of propeller sound production using large eddy simulation. Physical Review Fluids, 2018, 3, .	2.5	24
170	Impact of Climate Change Disclosure on Financial Performance: An Analysis of Indian Firms. Journal of Environmental Accounting and Management, 2018, 6, 185-197.	0.5	6
171	ANALYTICAL METHOD FOR CALCULATION OF COGGING TORQUE REDUCTION DUE TO SLOT SHIFTING IN A DUAL STATOR DUAL ROTOR PERMANENT MAGNET MACHINE WITH SEMI-CLOSED SLOTS. Progress in Electromagnetics Research M, 2018, 70, 99-108.	0.9	1
172	Photoabsorption Assignments for the C ₁ f ₁ B ₂ and X ₁ f ₁ A ₁ Vibronic Transitions of SO ₂ , Using New Ab Initio Potential Energy and Transition Dipole Surfaces. Journal of Physical Chemistry A, 2017, 121, 1012-1021.	2.5	18
173	3-D Analytical Model for Computation of Mutual Inductance for Different Misalignments With Shielding in Wireless Power Transfer System. IEEE Transactions on Transportation Electrification, 2017, 3, 332-342.	7.8	46
174	Materials and Processing of TSV. Springer Series in Advanced Microelectronics, 2017, , 47-69.	0.3	3
175	Microstructural and Reliability Issues of TSV. Springer Series in Advanced Microelectronics, 2017, , 71-99.	0.3	5
176	Effects of coarse woody debris on plant and lichen species composition in boreal forests. Journal of Vegetation Science, 2017, 28, 389-400.	2.2	26
177	A service-oriented architecture for coupling web service models using the Basic Model Interface (BMI). Environmental Modelling and Software, 2017, 92, 107-118.	4.5	37
178	Large eddy simulation of propeller wake instabilities. Journal of Fluid Mechanics, 2017, 814, 361-396.	3.4	138
179	Identification and characterization of information-networks in long-tail data collections. Environmental Modelling and Software, 2017, 94, 100-111.	4.5	4
180	Effect of type of thermo-mechanical excursion on growth of interfacial intermetallic compounds in Cu/Sn-Ag-Cu solder joints. Microelectronics Reliability, 2017, 74, 44-51.	1.7	12

#	ARTICLE	IF	CITATIONS
181	Effect of Ni on growth kinetics, microstructural evolution and crystal structure in the Cu(Ni)â€“Sn system. Philosophical Magazine, 2017, 97, 1782-1802.	1.6	18
182	Effect of Spatial Filtering on Characterizing Soil Properties From Imaging Spectrometer Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4149-4170.	4.9	4
183	Final State Resolved Quantum Predissociation Dynamics of SO ₂ (<i>Clf</i> ¹ <i>B</i> ₂) and Its Isotopomers via a Crossing with a Singlet Repulsive State. Journal of Physical Chemistry A, 2017, 121, 4930-4938.	2.5	9
184	First-principles C band absorption spectra of SO ₂ and its isotopologues. Journal of Chemical Physics, 2017, 146, 154305.	3.0	7
185	Bifurcation of the Kirkendall marker plane and the role of Ni and other impurities on the growth of Kirkendall voids in the Cuâ€“Sn system. Acta Materialia, 2017, 131, 260-270.	7.9	38
186	Characterizing Vegetation Canopy Structure Using Airborne Remote Sensing Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1160-1178.	6.3	20
187	Role of Oceanic and Land Moisture Sources and Transport in the Seasonal and Interannual Variability of Summer Monsoon in India. Journal of Climate, 2017, 30, 1839-1859.	3.2	82
188	Ternary, single-crystalline Bi ₂ (Te, Se) ₃ nanowires grown by electrodeposition. Acta Materialia, 2017, 125, 238-245.	7.9	12
189	Role of Oceanic and Terrestrial Atmospheric Moisture Sources in Intraseasonal Variability of Indian Summer Monsoon Rainfall. Scientific Reports, 2017, 7, 12729.	3.3	56
190	Role of Microâ€“Topographic Variability on the Distribution of Inorganic Soilâ€“Nitrogen Age in Intensively Managed Landscape. Water Resources Research, 2017, 53, 8404-8422.	4.2	18
191	Solidâ€“state diffusionâ€“controlled growth of the intermediate phases from room temperature to an elevated temperature in the Cuâ€“Sn and the Niâ€“Sn systems. Journal of Alloys and Compounds, 2017, 727, 832-840.	5.5	39
192	Electromigration in Metallic Materials and Its Role in Whiskering. , 2017, , 173-206.		1
193	Patterns of change in high frequency precipitation variability over North America. Scientific Reports, 2017, 7, 10853.	3.3	39
194	Effect of Au, Pd and Pt addition in Cu on the growth of intermetallic compounds and the Kirkendall voids in the Cuâ€“Sn system. Journal of Materials Science: Materials in Electronics, 2017, 28, 17014-17019.	2.2	5
195	Growth of phases in the solid-state from room temperature to an elevated temperature in the Pdâ€“Sn and the Ptâ€“Sn systems. Journal of Materials Science: Materials in Electronics, 2017, 28, 18379-18386.	2.2	4
196	Critical Zone services as environmental assessment criteria in intensively managed landscapes. Earth's Future, 2017, 5, 617-632.	6.3	34
197	Impacts of hydraulic redistribution on grassâ€“tree competition vs facilitation in a semiâ€“arid savanna. New Phytologist, 2017, 215, 1451-1461.	7.3	51
198	Critical evaluation of creep behavior of Sn-Ag-Cu solder alloys over wide range of temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 703, 144-153.	5.6	11

#	ARTICLE	IF	CITATIONS
199	A model for electromigration induced flow in liquid metals. Journal Physics D: Applied Physics, 2017, 50, 39LT02.	2.8	9
200	Functional Topology of Evolving Urban Drainage Networks. Water Resources Research, 2017, 53, 8966-8979.	4.2	34
201	PbSe mid-IR photoconductive thin films (part I): Phase analysis of the functional layer. Journal of Alloys and Compounds, 2017, 724, 316-326.	5.5	31
202	Small-scale solar plants coupled with smart public transport system and its coordination with the grid. IET Electrical Systems in Transportation, 2017, 7, 135-144.	2.4	11
203	Temporal information partitioning: Characterizing synergy, uniqueness, and redundancy in interacting environmental variables. Water Resources Research, 2017, 53, 5920-5942.	4.2	66
204	Nano- and Micro-Mechanical Properties of Ultrafine-Grained Materials Processed by Severe Plastic Deformation Techniques. Advanced Engineering Materials, 2017, 19, 1600578.	3.5	42
205	Direct imaging of dopant distributions across the Si-metallization interfaces in solar cells: Correlative nano-analytics by electron microscopy and NanoSIMS. Solar Energy Materials and Solar Cells, 2017, 160, 398-409.	6.2	11
206	Decreasing, not increasing, leaf area will raise crop yields under global atmospheric change. Global Change Biology, 2017, 23, 1626-1635.	9.5	112
207	A review of multi criteria decision making (MCDM) towards sustainable renewable energy development. Renewable and Sustainable Energy Reviews, 2017, 69, 596-609.	16.4	1,038
208	Inverter switching frequency prediction in DTC of induction motor drive for an EV drivetrain. , 2017, , .		2
209	Core-loss calculation in different parts of induction motor. IET Electric Power Applications, 2017, 11, 1664-1674.	1.8	15
210	Interaction Between Ecohydrologic Dynamics and Microtopographic Variability Under Climate Change. Water Resources Research, 2017, 53, 8383-8403.	4.2	24
211	Temporal Information Partitioning Networks (TIPNets): A process network approach to infer ecohydrologic shifts. Water Resources Research, 2017, 53, 5899-5919.	4.2	48
212	Performance evaluation of DTC IM drive for an EV application. , 2017, , .		0
213	Effect of different drive modes on energy consumption of an electric auto rickshaw. , 2017, , .		9
214	Semi-analytical model for triangular skewed permanent magnet axial flux machine. , 2017, , .		5
215	Identification of whisker grain in Sn coatings by analyzing crystallographic micro-texture using electron back-scatter diffraction. Acta Materialia, 2017, 134, 346-359.	7.9	33
216	Fuzzy-cuckoo controller for nonlinear system. International Journal of Systems, Control and Communications, 2017, 8, 41.	0.3	0

#	ARTICLE	IF	CITATIONS
217	Effect of cogging torque minimization techniques on performance of an axial flux permanent magnet machine. , 2017, , .		3
218	Designing a network of critical zone observatories to explore the living skin of the terrestrial Earth. Earth Surface Dynamics, 2017, 5, 841-860.	2.4	92
219	Effect of an electric vehicle bus network on guwahati grid. , 2017, , .		3
220	Design and implementation of phase detector on FPGA. , 2017, , .		3
221	Intentional islanding of microgrid. , 2017, , .		8
222	Digital design and implementation of an overcurrent relay on FPGA. , 2017, , .		7
223	Effect of electric field on creep and stress-relaxation behavior of carbon nanotube forests. RSC Advances, 2016, 6, 67685-67692.	3.6	2
224	An environmental cost-benefit analysis of alternative green roofing strategies. Ecological Engineering, 2016, 95, 1-9.	3.6	61
225	Zero emission transportation system. , 2016, , .		7
226	Performance analysis and comparison of dual-rotor Hybrid Permanent Magnet Induction Machine topologies for electric vehicle application. , 2016, , .		0
227	Flux estimation in DTC for wide speed range. , 2016, , .		0
228	Mathematical model of series-parallel compensation for contactless power transfer system. , 2016, , .		3
229	New <i>ab initio</i> adiabatic potential energy surfaces and bound state calculations for the singlet ground X^1A_1 and excited $C^1B_2(2^1A''_2)$ states of SO ₂ . Journal of Chemical Physics, 2016, 144, 174301.	3.0	17
230	Macro and micro-texture study for understanding whisker growth in Sn coatings. , 2016, , .		1
231	3-D analytical modeling of magnetic field for air core rectangular coil in contactless power transfer system. , 2016, , .		2
232	Analytical model for permanent magnet motor with non-linear ferromagnetic material property. , 2016, , .		2
233	Efficiency investigation for electric vehicle powertrain with variable DC-link bus voltage. , 2016, , .		16
234	A general relation between supply harmonics and reactive power of an induction motor. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
235	Magnetic field analysis and comparison of dual-rotor Hybrid Permanent Magnet Induction Machine topologies using FEM. , 2016, , .		1
236	Electrolithography- A New and Versatile Process for Nano Patterning. Scientific Reports, 2016, 5, 17753.	3.3	26
237	Publisher's Note: "New <i>ab initio</i> adiabatic potential energy surfaces and bound state calculations for the singlet ground X^1A_1 and excited $C^1B_2(2^1A''^2)$ states of SO_2 ". J. Chem. Phys. 144, 174301 (2016)]. Journal of Chemical Physics, 2016, 144, 209901.		0
238	A Multi Criteria Decision based rural electrification system. , 2016, , .		11
239	Prediction of high frequency core loss for electrical steel using the data provided by manufacturer. Journal of Magnetism and Magnetic Materials, 2016, 410, 248-256.	2.3	9
240	Processing and mechanical behavior of Cu-Bi alloys with high volume fraction of Bi: Suitability for high temperature soldering application. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 666, 339-349.	5.6	7
241	Nanoscale patterning in ambient conditions using liquid electromigration. , 2016, , .		0
242	Front Side Metallization of n- and p-Type, High-Efficiency, Single-Crystalline Si Solar Cells: Assessing the Temperature-Dependent Series Resistance. Journal of Electronic Materials, 2016, 45, 2656-2661.	2.2	5
243	Electric current induced forward and anomalous backward mass transport. Journal Physics D: Applied Physics, 2016, 49, 20LT01.	2.8	8
244	An Architecture for Automatic Deployment of Brown Dog Services at Scale into Diverse Computing Infrastructures. , 2016, , .		4
245	Effect of aspect ratio of test specimens on quasistatic compression loading and stress-relaxation of PDMS and a Cu-filled-PDMS composite. Polymer Testing, 2016, 55, 173-183.	4.8	5
246	High-Efficiency Crystalline-Si Solar Cells with Screen-Printed Front-Side Metallization: A Percolation Model to Explain the Current Path. Journal of Electronic Materials, 2016, 45, 5764-5772.	2.2	15
247	Cu-Bi alloys with high volume fraction of Bi: A material potentially suitable for thermal surge protection and energy storage. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 677, 140-152.	5.6	12
248	Comment on "Climate and agricultural land use change impacts on streamflow in the upper midwestern United States" by Satish C. Gupta et al.. Water Resources Research, 2016, 52, 7536-7539.	4.2	10
249	Mean age distribution of inorganic soil nitrogen. Water Resources Research, 2016, 52, 5516-5536.	4.2	20
250	A real-time smart charging station for EVs designed for V2G scenario and its coordination with renewable energy sources. , 2016, , .		10
251	Effect of relative phase-shift of magnetic field axes on armature reaction and performance of Hybrid Permanent Magnet Induction Machine. , 2016, , .		0
252	N-type single-crystalline Si solar cells: Front side metallization for solar cells reaching 20% efficiency. Solar Energy Materials and Solar Cells, 2016, 157, 200-208.	6.2	21

#	ARTICLE	IF	CITATIONS
253	Contact formation of front side metallization in p-type, single crystalline Si solar cells: Microstructure, temperature dependent series resistance and percolation model. Solar Energy Materials and Solar Cells, 2016, 145, 358-367.	6.2	30
254	Effect of strain rate and filler size on mechanical behavior of a Cu filled elastomer based composite. Composites Science and Technology, 2016, 127, 185-192.	7.8	13
255	Physical mechanism of surface blistering process in H-implanted Ge. Journal of Materials Science, 2016, 51, 5397-5402.	3.7	1
256	Two-Phase Metallic Thermal Interface Materials Processed Through Liquid Phase Sintering Followed by Accumulative Roll Bonding. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 58-66.	2.5	5
257	2-D Analytical Subdomain Model for Hybrid Dual-Rotor Motor. IEEE Transactions on Magnetics, 2016, 52, 1-9.	2.1	13
258	Effect of Ni content on the diffusion-controlled growth of the product phases in the Cu(Ni)â€“Sn system. Philosophical Magazine, 2016, 96, 15-30.	1.6	28
259	Review: Overcoming the paradox of strength and ductility in ultrafine-grained materials at low temperatures. Journal of Materials Science, 2016, 51, 7-18.	3.7	91
260	Analytical method for accurate determination of nonlinear magnetization curve of induction motor. , 2015, , .		1
261	Integrated fleet of electric vehicles as a frequency regulation agent in the grid. , 2015, , .		1
262	Hydrocomplexity: Addressing water security and emergent environmental risks. Water Resources Research, 2015, 51, 5827-5838.	4.2	42
263	Mutual inductance computation method for coils of different geometries and misalignments. , 2015, , .		9
264	Modeling and analysis of inductively coupled power transfer system. , 2015, , .		1
265	Alternative drive options for circular looms. , 2015, , .		0
266	Numerical simulations of hydraulic redistribution across climates: The role of the root hydraulic conductivities. Water Resources Research, 2015, 51, 8529-8550.	4.2	36
267	Autocuration Cyberinfrastructure for Scientific Discovery and Preservation. , 2015, , .		2
268	Fuzzy based active and reactive power support to the distribution network using electric vehicles. , 2015, , .		5
269	Information Theoretic Measures to Infer Feedback Dynamics in Coupled Logistic Networks. Entropy, 2015, 17, 7468-7492.	2.2	15
270	Mathematical model of series-series compensation for contactless power transfer system. , 2015, , .		7

#	ARTICLE	IF	CITATIONS
271	A novel smart meter for better control over devices including electric vehicles and to enable smart use of power in smart home. , 2015, , .		2
272	Distributed active and reactive power transfer for voltage regulation using V2G system. , 2015, , .		3
273	AC bus distributed bidirectional contactless charging station. , 2015, , .		0
274	Analysis of sustainable public transportation system and its interaction with the grid. , 2015, , .		3
275	Analysis and comparison of four compensation topologies of contactless power transfer system. , 2015, , .		10
276	FPGA implementation of direct torque control of induction motor with reduced ripples in torque and flux. , 2015, , .		0
277	Towards Sustainable Curation and Preservation: The SEAD Project's Data Services Approach. , 2015, , .		19
278	Simulation of direct torque control of induction motor using Simulink, simplorer and maxwell software. , 2015, , .		9
279	Investigation of PMSM motor performance with different magnet configurations and rotor surface profiling. , 2015, , .		1
280	GPU-based high-performance computing for integrated surfaceâ€“sub-surface flow modeling. Environmental Modelling and Software, 2015, 73, 1-13.	4.5	46
281	Novel architecture for anomalous strengthening of a particulate filled polymer matrix composite. RSC Advances, 2015, 5, 62477-62485.	3.6	4
282	On the Feasibility of Characterizing Soil Properties From AVIRIS Data. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5133-5147.	6.3	14
283	The influence of photosynthetic acclimation to rising CO ₂ and warmer temperatures on leaf and canopy photosynthesis models. Global Biogeochemical Cycles, 2015, 29, 194-206.	4.9	51
284	Manipulating Crystallographic Texture of Sn Coatings by Optimization of Electrodeposition Process Conditions to Suppress Growth of Whiskers. Journal of Electronic Materials, 2015, 44, 1206-1219.	2.2	18
285	The contribution of grain boundary sliding in tensile deformation of an ultrafine-grained aluminum alloy having high strength and high ductility. Journal of Materials Science, 2015, 50, 3549-3561.	3.7	36
286	Analytical determination of slot harmonics content of air-gap magnetic field for an induction machine. , 2015, , .		5
287	Analytical Model for Permanent Magnet Motor With Slotting Effect, Armature Reaction, and Ferromagnetic Material Property. IEEE Transactions on Magnetics, 2015, 51, 1-10.	2.1	19
288	Tailoring energy absorption capacity of CNT forests through application of electric field. Carbon, 2015, 95, 126-136.	10.3	7

#	ARTICLE	IF	CITATIONS
289	Emergent and divergent resilience behavior in catastrophic shift systems. <i>Ecological Modelling</i> , 2015, 298, 87-105.	2.5	16
290	Real-Time Coordination of Electric Vehicles to Support the Grid at the Distribution Substation Level. <i>IEEE Systems Journal</i> , 2015, 9, 1000-1010.	4.6	51
291	LES Applied to Ship Research. <i>Journal of Ship Research</i> , 2015, 59, 238-245.	1.1	9
292	Analysis of induction motor for electric vehicle application based on drive cycle analysis. , 2014, , .		21
293	Precipitation Recycling in the Indian Subcontinent during Summer Monsoon. <i>Journal of Hydrometeorology</i> , 2014, 15, 2050-2066.	1.9	86
294	A Novel Steady-State Model of a Hybrid Dual Rotor Motor Comprising Electrical Equivalent Circuit and Performance Equations. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-11.	2.1	11
295	PID controller for nonlinear system using cuckoo optimization. , 2014, , .		5
296	Drive system for electric vehicle power train application using DC to AC matrix converter. , 2014, , .		1
297	Evaluating shock absorption behavior of small-sized systems under programmable electric field. <i>Review of Scientific Instruments</i> , 2014, 85, 113903.	1.3	4
298	Tailoring viscoelastic response of carbon nanotubes cellular structure using electric field. <i>Nanoscale</i> , 2014, 6, 13668-13677.	5.6	8
299	Steady state model of Dual Rotor Motor for electric vehicle application. , 2014, , .		0
300	Design and implementation of controllers for contactless power transfer On FPGA. , 2014, , .		0
301	Impact of circuit parameters in contactless power transfer system. , 2014, , .		0
302	A generalized method for developing steady state models for different electric motors. , 2014, , .		1
303	Film thickness mediated transition in the kinetics of electric current induced flow of thin liquid metal films. <i>Applied Physics Letters</i> , 2014, 104, 214102.	3.3	15
304	Effect of fluid medium on mechanical behavior of carbon nanotube foam. <i>Applied Physics Letters</i> , 2014, 104, 221910.	3.3	7
305	Incorporating Reanalysis-Based Short-Term Forecasts from a Regional Climate Model in an Irrigation Scheduling Optimization Problem. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 699-713.	2.6	25
306	Identification of three phase induction machines equivalent circuits parameters using multi-objective genetic algorithms. , 2014, , .		17

#	ARTICLE	IF	CITATIONS
307	Performance evaluation of structural properties for soil stabilised using rice husk ash. Road Materials and Pavement Design, 2014, 15, 539-553.	4.0	21
308	Analysis and comparison of series-series and series-parallel topology of contactless power transfer systems. , 2014, , .		17
309	Improved dynamic model of induction motor including the effects of saturation. , 2014, , .		3
310	A critical examination of the paradox of strength and ductility in ultrafine-grained metals. Journal of Materials Research, 2014, 29, 2534-2546.	2.6	32
311	Node identification for placing EVs and PAs in a distribution network. , 2014, , .		1
312	Design and optimization of dual rotor motor for electric vehicle application. , 2014, , .		4
313	Design of Fuzzy Logic based PD Controller using cuckoo optimization for inverted pendulum. , 2014, , .		2
314	Glioprotective Effects of Ashwagandha Leaf Extract against Lead Induced Toxicity. BioMed Research International, 2014, 2014, 1-15.	1.9	33
315	Analytical model of a permanent magnet brushless DC motor with non-linear ferromagnetic material. , 2014, , .		5
316	Modeling and Control of Contactless Based Smart Charging Station in V2G Scenario. IEEE Transactions on Smart Grid, 2014, 5, 337-348.	9.0	48
317	Intracellular regulation of cell signaling cascades: how location makes a difference. Journal of Mathematical Biology, 2014, 69, 213-242.	1.9	5
318	Critical review of flexible pavement performance models. KSCE Journal of Civil Engineering, 2014, 18, 142-148.	1.9	27
319	Simultaneous improvement in productivity, water use, and albedo through crop structural modification. Global Change Biology, 2014, 20, 1955-1967.	9.5	88
320	Mathematical Modeling for Economic Evaluation of Electric Vehicle to Smart Grid Interaction. IEEE Transactions on Smart Grid, 2014, 5, 712-721.	9.0	59
321	Smart Public Transit System Using an Energy Storage System and Its Coordination With a Distribution Grid. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1622-1632.	8.0	24
322	Mathematical Modeling of Li-Ion Battery Using Genetic Algorithm Approach for V2G Applications. IEEE Transactions on Energy Conversion, 2014, 29, 332-343.	5.2	102
323	Electric field induced ultra-high actuation in a bulk carbon nanotube structure. Carbon, 2014, 67, 546-553.	10.3	12
324	Accurate Computation of Mutual Inductance of Two Air Core Square Coils with Lateral and Angular Misalignments in a Flat Planar Surface. IEEE Transactions on Magnetics, 2014, 50, 1-9.	2.1	53

#	ARTICLE	IF	CITATIONS
325	Threshold Dynamics in Soil Carbon Storage for Bioenergy Crops. Environmental Science & Technology, 2014, 48, 12090-12098.	10.0	28
326	Mechanical and thermal modeling of In-Cu composites for thermal interface materials applications. Journal of Composite Materials, 2014, 48, 1391-1398.	2.4	10
327	Regulation of Plasmodium falciparum Development by Calcium-dependent Protein Kinase 7 (PfCDPK7). Journal of Biological Chemistry, 2014, 289, 20386-20395.	3.4	45
328	Assessment of Floodplain Vulnerability during Extreme Mississippi River Flood 2011. Environmental Science & Technology, 2014, 48, 2619-2625.	10.0	39
329	Wrinkling of Atomic Planes in Ultrathin Au Nanowires. Nano Letters, 2014, 14, 4859-4866.	9.1	35
330	Sustainable long term scientific data publication: Lessons learned from a prototype Observatory Information System for the Illinois River Basin. Environmental Modelling and Software, 2014, 54, 73-87.	4.5	9
331	Power law scaling of topographic depressions and their hydrologic connectivity. Geophysical Research Letters, 2014, 41, 1553-1559.	4.0	45
332	Assessing the value of seasonal climate forecast information through an end-to-end forecasting framework: Application to U.S. 2012 drought in central Illinois. Water Resources Research, 2014, 50, 6592-6609.	4.2	28
333	Evolution of microhardness and microstructure in a cast Al-7% Si alloy during high-pressure torsion. Journal of Materials Science, 2013, 48, 4671-4680.	3.7	23
334	Effect of electro-mechanical coupling on actuation behavior of a carbon nanotube cellular structure. Carbon, 2013, 60, 169-174.	10.3	14
335	Periodic Architecture for High Performance Shock Absorbing Composites. Scientific Reports, 2013, 3, 2056.	3.3	16
336	Recrystallization and $\{m Ag\}_3\{m Sn\}$ Particle Redistribution During Thermomechanical Treatment of Bulk Sn-Ag-Cu Solder Alloys. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 1868-1875.	2.5	25
337	A novel reduced switch count Bidirectional Contactless Charging System for EVs and PHEVs applications. , 2013, , .		2
338	Synchronization of grid connected vehicle-to-grid system with bidirectional contactless charging. , 2013, , .		1
339	Effect of saturation on equivalent circuit analysis of induction motor in practical scenario. , 2013, , .		1
340	A Multi Charging Station for Electric Vehicles and Its Utilization for Load Management and the Grid Support. IEEE Transactions on Smart Grid, 2013, 4, 1026-1037.	9.0	123
341	Analysis of stray loss and its determination with equivalent circuit for double cage rotor induction motor. , 2013, , .		4
342	Electric Current-Induced Mass Flow in Very Thin Infinite Metallic Films. IEEE Transactions on Electron Devices, 2013, 60, 2877-2883.	3.0	24

#	ARTICLE	IF	CITATIONS
343	Smart home energy management with integration of PV and storage facilities providing grid support. , 2013, , .		8
344	Effect of substrate surface on electromigration-induced sliding at hetero-interfaces. Journal Physics D: Applied Physics, 2013, 46, 155303.	2.8	5
345	A Conjunctive Surfaceâ€“Subsurface Flow Representation for Mesoscale Land Surface Models. Journal of Hydrometeorology, 2013, 14, 1421-1442.	1.9	38
346	Prediction of Equivalency Factors for Various Subbase and Base Courses. Journal of Materials in Civil Engineering, 2013, 25, 1357-1365.	2.9	2
347	A multi-point Bidirectional Contactless Charging System in a charging station suitable for EVs and PHEVs applications. , 2013, , .		3
348	Passive regulation of soil biogeochemical cycling by root water transport. Water Resources Research, 2013, 49, 3729-3746.	4.2	35
349	Analysis of city-Capabus transportation system failures and solutions with FLC. , 2013, , .		0
350	Effect of substrate surface roughness on electric current induced flow of liquid metals. Applied Physics Letters, 2013, 102, 054101.	3.3	10
351	Legacy Effects in Material Flux: Structural Catchment Changes Predate Long-Term Studies. BioScience, 2012, 62, 575-584.	4.9	59
352	Laboratory Study on Moisture Susceptibility of Dense Graded Mixes. Journal of Transportation Engineering, 2012, 138, 105-113.	0.9	17
353	Designing a multi charging station for Electric Vehicles and its utilization for the grid support. , 2012, , .		8
354	Coordination of Electric Vehicles in charging stations connected at different nodes of a distribution substation. , 2012, , .		2
355	Analysis of implementing the electric city bus and its coordination with the grid. , 2012, , .		7
356	Microstructurally Adaptive Model for Primary and Secondary Creep of Sn-Ag-Based Solders. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 256-265.	2.5	43
357	A model of Electric Vehicle charging station compatibles with Vehicle to Grid scenario. , 2012, , .		5
358	Performance analysis of a hybrid dual rotor motor for electric vehicle application. , 2012, , .		2
359	A new concept for bidirectional inductively coupled battery charging system based on ac-dc-ac converter for PHEV's and EV's using fuzzy logic approach. , 2012, , .		2
360	Mathematical modeling of Li-ion battery for charge/discharge rate and capacity fading characteristics using genetic algorithm approach. , 2012, , .		33

#	ARTICLE	IF	CITATIONS
361	Bidirectional Contactless Charging System using Li-ion battery model. , 2012, , .		8
362	A graphical user interface for numerical modeling of acclimation responses of vegetation to climate change. Computers and Geosciences, 2012, 49, 91-101.	4.2	18
363	The Cancer Stem Cell Subtype Determines Immune Infiltration of Glioblastoma. Stem Cells and Development, 2012, 21, 2753-2761.	2.1	79
364	Coordination of multi charging station for Electric Vehicles and its utilization for vehicle to Grid scenario. , 2012, , .		3
365	Mitigating land loss in coastal Louisiana by controlled diversion of Mississippi River sand. Nature Geoscience, 2012, 5, 534-537.	12.9	100
366	Implementation of Vehicle to Grid Infrastructure Using Fuzzy Logic Controller. IEEE Transactions on Smart Grid, 2012, 3, 565-577.	9.0	226
367	Typology of hydrologic predictability. Water Resources Research, 2011, 47, .	4.2	86
368	Comprehensive Small Animal Imaging Strategies on a Clinical 3 T Dedicated Head MR-Scanner; Adapted Methods and Sequence Protocols in CNS Pathologies. PLoS ONE, 2011, 6, e16091.	2.5	18
369	Power-Law Behavior in Geometric Characteristics of Full Binary Trees. Journal of Statistical Physics, 2011, 142, 862-878.	1.2	9
370	Implications for the hydrologic cycle under climate change due to the expansion of bioenergy crops in the Midwestern United States. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15085-15090.	7.1	125
371	Transcriptional Profiles of CD133+ and CD133 ⁺ Glioblastoma-Derived Cancer Stem Cell Lines Suggest Different Cells of Origin. Cancer Research, 2010, 70, 2030-2040.	0.9	237
372	Optimality approaches to describe characteristic fluvial patterns on landscapes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 1387-1395.	4.0	50
373	Mechanical Characteristics of Zn-22% Al and Al-3% Mg Alloys Processed to High Strains by ECAP. Materials Science Forum, 2010, 667-669, 695-700.	0.3	0
374	Powertrain selection for electric city bus based on the Multicriteria Decision Making. , 2010, , .		0
375	Parameter extraction of battery models using multiobjective optimization genetic algorithms. , 2010, , .		25
376	Battery modeling and fast charging of EV. , 2010, , .		14
377	Web-Based Advanced Traveler Information System for Developing Countries. Journal of Transportation Engineering, 2010, 136, 836-845.	0.9	8
378	Information Driven Ecohydrologic Self-Organization. Entropy, 2010, 12, 2085-2096.	2.2	44

#	ARTICLE	IF	CITATIONS
379	Influence of EV on grid power quality and optimizing the charging schedule to mitigate voltage imbalance and reduce power loss. , 2010, , .		51
380	The future of hydrology: An evolving science for a changing world. Water Resources Research, 2010, 46, .	4.2	487
381	Analysis of vehicle to Grid concept in Indian scenario. , 2010, , .		23
382	Comparative Study of Rheological Behavior of Modified Binders for High-Temperature Areas. Journal of Materials in Civil Engineering, 2010, 22, 978-984.	2.9	28
383	Influence of strain rate on strength and ductility in an aluminum alloy processed by equal-channel angular pressing. Journal of Materials Science, 2009, 44, 3913-3916.	3.7	13
384	New observations on high-temperature creep at very low stresses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 510-511, 20-24.	5.6	14
385	Editorial: Building on the legacy of <i>Water Resources Research</i>. Water Resources Research, 2009, 45, .	4.2	2
386	Reply to comment by J. Szilagyi on "Power law catchment-scale recessions arising from heterogeneous linear small-scale dynamics". Water Resources Research, 2009, 45, .	4.2	4
387	Ecohydrologic process networks: 1. Identification. Water Resources Research, 2009, 45, .	4.2	154
388	Ecohydrologic process networks: 2. Analysis and characterization. Water Resources Research, 2009, 45, .	4.2	65
389	Intelligent transport system for developing countries. World Review of Intermodal Transportation Research, 2009, 2, 201.	0.4	0
390	The role of Harper's Dorn creep at high temperatures and very low stresses. Journal of Materials Science, 2008, 43, 4801-4810.	3.7	12
391	Emergence of self-similar tree network organization. Complexity, 2008, 13, 30-37.	1.6	29
392	Precipitation Recycling Variability and Ecoclimatological Stability—A Study Using NARR Data. Part II: North American Monsoon Region. Journal of Climate, 2008, 21, 5187-5203.	3.2	110
393	Precipitation Recycling Variability and Ecoclimatological Stability—A Study Using NARR Data. Part I: Central U.S. Plains Ecoregion. Journal of Climate, 2008, 21, 5165-5186.	3.2	68
394	Hydrologic Applications of MRAN Algorithm. Journal of Hydrologic Engineering - ASCE, 2007, 12, 124-129.	1.9	7
395	Three-dimensional volume-averaged soil moisture transport model with a scalable parameterization of subgrid topographic variability. Water Resources Research, 2007, 43, .	4.2	52
396	Variability, Feedback, and Cooperative Process Dynamics: Elements of a Unifying Hydrologic Theory. Geography Compass, 2007, 1, 1338-1360.	2.7	31

#	ARTICLE	IF	CITATIONS
397	Fifty years of Harper's Dorn creep: a viable creep mechanism or a Californian artifact?. Journal of Materials Science, 2007, 42, 409-420.	3.7	28
398	Mechanical characteristics of a Zn-22% Al alloy processed to very high strains by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 429, 324-328.	5.6	60
399	The significance of grain boundary sliding in the superplastic Zn-22% Al alloy after processing by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 410-411, 447-450.	5.6	47
400	A data mining approach for understanding topographic control on climate-induced inter-annual vegetation variability over the United States. Remote Sensing of Environment, 2005, 98, 1-20.	11.0	74
401	NVAP and Reanalysis-2 Global Precipitable Water Products : Intercomparison and Variability Studies. Bulletin of the American Meteorological Society, 2005, 86, 245-256.	3.3	42
402	Behaviour of Subgrade Soil Reinforced with Geogrid. International Journal of Pavement Engineering, 2004, 5, 201-209.	4.4	26
403	Layer averaged Richard's equation with lateral flow. Advances in Water Resources, 2004, 27, 521-531.	3.8	29
404	Reply to comment by Talbot et al. on "Layer averaged Richards' equation with lateral flow". Advances in Water Resources, 2004, 27, 1043-1044.	3.8	0
405	Hydraulic geometry and the nonlinearity of the network instantaneous response. Water Resources Research, 2004, 40, .	4.2	27
406	Hydrodynamic and geomorphologic dispersion: scale effects in the Illinois River Basin. Journal of Hydrology, 2004, 288, 237-257.	5.4	30
407	Kinematic dispersion in stream networks 2. Scale issues and self-similar network organization. Water Resources Research, 2002, 38, 27-1-27-15.	4.2	42
408	Kinematic dispersion in stream networks 1. Coupling hydraulic and network geometry. Water Resources Research, 2002, 38, 26-1-26-14.	4.2	77
409	Wavelet analysis for geophysical applications. Reviews of Geophysics, 1997, 35, 385-412.	23.0	803
410	Resolving the Strength-Ductility Paradox through Severe Plastic Deformation of a Cast Al-7% Si Alloy. Materials Science Forum, 0, 879, 1043-1048.	0.3	1
411	Assessing the spatial variability of the soil properties in geologically complex Jawali region of north-west Himalaya, India. International Journal of Environmental Analytical Chemistry, 0, , 1-16.	3.3	2
412	Efficacy of zinc nutrition for improving zinc content at different growth stages of rainfed pea-maize sequence in Northwestern Himalaya. Journal of Plant Nutrition, 0, , 1-11.	1.9	0
413	Applicability of various mixing rules for hot asphalt recycled binders. Road Materials and Pavement Design, 0, , 1-20.	4.0	4
414	Effect of high tool rotational speed and pin diameter on mechanical properties, microstructure and formability of friction stir tailor welded blanks. Advances in Materials and Processing Technologies, 0, , 1-29.	1.4	0