

Guillaume Crevecoeur

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

609
citations

13
h-index

20
g-index

100
ext. papers

774
ext. citations

3.3
avg, IF

4.32
L-index

#	Paper	IF	Citations
83	Adaptive control of a mechatronic system using constrained residual reinforcement learning. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	2
82	Robust Stability Analysis of Interval Fractional-Order Plants With Interval Time Delay and General Form of Fractional-Order Controllers 2022 , 6, 1268-1273		3
81	Prediction of follower jumps in cam-follower mechanisms: The benefit of using physics-inspired features in recurrent neural networks. <i>Mechanical Systems and Signal Processing</i> , 2022 , 166, 108453	7.8	3
80	Robust Stability Analysis of Unstable Second Order Plus Time-Delay (SOPTD) Plant by Fractional-Order Proportional Integral (FOPI) Controllers. <i>Mathematics</i> , 2022 , 10, 567	2.3	0
79	A Radial Basis Function-Based Optimization Algorithm with Regular Simplex Set Geometry in Ellipsoidal Trust-Regions. <i>Mathematical Problems in Engineering</i> , 2022 , 2022, 1-21	1.1	
78	Physics Informed LSTM Network for Flexibility Identification in Evaporative Cooling System. <i>IEEE Transactions on Industrial Informatics</i> , 2022 , 1-1	11.9	1
77	Efficiency Enhancements of Wind Energy Conversion Systems using Soft Switching Multiple Model Predictive Control. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
76	Scalable Distributed State Estimation for a Class of State-Saturated Systems Subject to Quantization Effects. <i>IEEE Access</i> , 2021 , 9, 138724-138733	3.5	1
75	Overload Clutch Design for Collision Tolerant HighSpeed Industrial Robots. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 863-870	4.2	1
74	Delay dependent criteria for the consensus of second-order multi-agent systems subject to communication delay. <i>IET Control Theory and Applications</i> , 2021 , 15, 1724-1735	2.5	
73	Wind and Solar Intermittency and the Associated Integration Challenges: A Comprehensive Review Including the Status in the Belgian Power System. <i>Energies</i> , 2021 , 14, 2630	3.1	3
72	Model-based optimized steering and focusing of local magnetic particle concentrations for targeted drug delivery. <i>Drug Delivery</i> , 2021 , 28, 63-76	7	8
71	Improving Torque in a Magnetic Resonance Based Motoring System by Detuning From Resonance. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 1188-1196	5.4	0
70	Model Predictive Control with a Cascaded Hammerstein Neural Network of a Wind Turbine Providing Frequency Containment Reserve. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	1
69	Physics-Based Neural Network Models for Prediction of Cam-Follower Dynamics Beyond Nominal Operations. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	2
68	. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 36, 1688-1699	5.4	8
67	Bayesian Convolutional Neural Networks for Remaining Useful Life Prognostics of Solenoid Valves With Uncertainty Estimations. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 8418-8428	11.9	5

66	Real-Time Energy-Efficient Actuation of Induction Motor Drives Using Approximate Dynamic Programming. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 11837-11846	8.9	2
65	Neural Network Augmented Physics Models for Systems with Partially Unknown Dynamics: Application to Slider-Crank Mechanism. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	5
64	On Entropy Regularized Path Integral Control for Trajectory Optimization. <i>Entropy</i> , 2020 , 22,	2.8	2
63	Data-Driven Prognostics of Alternating Current Solenoid Valves 2020 ,		2
62	A framework for robust quadratic optimal control with parametric dynamic model uncertainty using polynomial chaos. <i>Optimal Control Applications and Methods</i> , 2020 , 41, 833-848	1.7	2
61	Inverse Thermal Identification of a Thermally Instrumented Induction Machine Using a Lumped-Parameter Thermal Model. <i>Energies</i> , 2020 , 13, 37	3.1	6
60	Transfer Learning in ECG Classification from Human to Horse Using a Novel Parallel Neural Network Architecture. <i>Scientific Reports</i> , 2020 , 10, 186	4.9	22
59	An Inverse Thermal Modeling Approach for Thermal Parameter and Loss Identification in an Axial Flux Permanent Magnet Machine. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 1727-1735	8.9	26
58	Adaptive Convex Loss Mappings for Enhanced Loss Assessment in Asynchronous Drives. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1991-2003	4.8	
57	Quasi-Static Torque Profile Expressions for Magnetic Resonance-Based Remote Actuation. <i>IEEE Transactions on Energy Conversion</i> , 2019 , 34, 1255-1263	5.4	3
56	Data-driven discovery of the heat equation in an induction machine via sparse regression 2019 ,		1
55	Harvesting wind gust energy with small and medium wind turbines using a bidirectional control strategy. <i>Journal of Engineering</i> , 2019 , 2019, 4261-4266	0.7	7
54	Series and Parallel Capacitor Compensation of the Transmitter in a Magnetic Resonance Based Motoring System 2019 ,		1
53	About Satisfying String Stability Using Heterogenous Unidirectional Controllers 2019 ,		1
52	Effect of Transmitter Position on the Torque Generation of a Magnetic Resonance Based Motoring system 2019 ,		1
51	Data-driven online temperature compensation for robust field-oriented torque-controlled induction machines. <i>IET Electric Power Applications</i> , 2019 , 13, 1954-1963	1.8	2
50	A Data-Driven Approach Using Deep Learning Time Series Prediction for Forecasting Power System Variables 2019 ,		1
49	Multi-Objective Predictive Control Optimization with Varying Term Objectives: A Wind Farm Case Study. <i>Processes</i> , 2019 , 7, 778	2.9	7

48	Hybrid derivative functions for identification of unknown loads and physical parameters with application on slider-crank mechanism 2019 ,		1
47	Path Integral Policy Improvement with Differential Dynamic Programming 2019 ,		1
46	Computationally efficient modeling for assessing the energy efficiency of electric drivetrains using convex formulations. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2019 , 32, e2275	1	0
45	Model-based optimal design of a magnetic nanoparticle tomographic imaging setup 2018 ,		1
44	Inverse Methodology for the Parameter Identification of a Lumped Parameter Thermal Network for an Induction Machine 2018 ,		2
43	A trajectory-based sampling strategy for sequentially refined metamodel management of metamodel-based dynamic optimization in mechatronics. <i>Optimal Control Applications and Methods</i> , 2018 , 39, 1786-1801	1.7	1
42	A wave emulator for ocean wave energy, a Froude-scaled dry power take-off test setup. <i>Renewable Energy</i> , 2017 , 105, 712-721	8.1	4
41	Experimental ex-vivo validation of PMMA-based bone cements loaded with magnetic nanoparticles enabling hyperthermia of metastatic bone tumors. <i>AIP Advances</i> , 2017 , 7, 056704	1.5	5
40	The effect of the magnetic nanoparticle size dependence of the relaxation time constant on the specific loss power of magnetic nanoparticle hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 426, 206-210	2.8	12
39	Convex Mapping Formulations Enabling Optimal Power Split and Design of the Electric Drivetrain in All-Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 9702-9711	6.8	13
38	Adaptive state space representations enabling reliable and robust decision-making in asynchronous drives for mechatronic applications 2017 ,		1
37	Modeling transcranial magnetic stimulation from the induced electric fields to the membrane potentials along tractography-based white matter fiber tracts. <i>Journal of Neural Engineering</i> , 2016 , 13, 026028	5	17
36	On cost function transformations for the reduction of uncertain model parameters Impact towards the optimal solutions. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 289, 392-399	2.4	
35	Quantitative model selection for enhanced magnetic nanoparticle imaging in magnetorelaxometry. <i>Medical Physics</i> , 2015 , 42, 6853-62	4.4	10
34	Robustness assessment of 1-d electron paramagnetic resonance for improved magnetic nanoparticle reconstructions. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 1635-43	5	3
33	A sensor sensitivity and correlation analysis through polynomial chaos in the EEG problem. <i>IMA Journal of Applied Mathematics</i> , 2014 , 79, 163-174	1	5
32	Magnetic nanoparticle imaging by random and maximum length sequences of inhomogeneous activation fields. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 3258-60	0.9	3
31	Subspace electrode selection methodology for EEG multiple source localization error reduction due to uncertain conductivity values. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6181-4	0.9	

30	A Numerical Study on Conductivity Estimation of the Human Head in the Low Frequency Domain Using Induced Current MR Phase Imaging EIT With Multiple Gradients. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 5004-5010	2	8
29	Quantifying the effect of repetitive transcranial magnetic stimulation in the rat brain by fSPECT CBF scans. <i>Brain Stimulation</i> , 2013 , 6, 554-62	5.1	11
28	Advancements in Magnetic Nanoparticle Reconstruction Using Sequential Activation of Excitation Coil Arrays Using Magnetorelaxometry. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 1313-1316	2	29
27	Adaptive Control of Excitation Coil Arrays for Targeted Magnetic Nanoparticle Reconstruction Using Magnetorelaxometry. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2842-2845	2	17
26	Nondestructive Detection of Inhomogeneity in the Magnetic Properties of Materials With a Moving Magnet Hysteresis Comparator. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 4409-4412	2	1
25	A Simple Magnetostatic Sensing Method for Assessing the Local Hysteresis Properties in Ferromagnetic Sheet Materials. <i>Journal of Sensors</i> , 2012 , 2012, 1-7	2	2
24	Two-level refined direct optimization scheme using intermediate surrogate models for electromagnetic optimization of a switched reluctance motor. <i>Engineering With Computers</i> , 2012 , 28, 199-207	4.5	5
23	A priori experimental design for inverse identification of magnetic material properties of an electromagnetic device using uncertainty analysis. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2012 , 31, 972-984	0.7	4
22	Application of the drag force method to evaluate magnetic property degradation near the cut edges of electrical steels. <i>Journal of Applied Physics</i> , 2011 , 109, 07E518	2.5	4
21	Magnetic material identification of a switched reluctance motor. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2011 , 37, 35-49	0.4	8
20	An efficient 3-D eddy-current solver using an independent impedance method for transcranial magnetic stimulation. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 310-20	5	26
19	Reduced conductivity dependence method for increase of dipole localization accuracy in the EEG inverse problem. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 1430-40	5	11
18	EEG Inverse Problem Solution Using a Selection Procedure on a High Number of Electrodes With Minimal Influence of Conductivity. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 874-877	2	6
17	Eddy-Current Simulations Using an Independent Impedance Method in Anisotropic Biological Tissues. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 3845-3848	2	10
16	Selection of Measurement Modality for Magnetic Material Characterization of an Electromagnetic Device Using Stochastic Uncertainty Analysis. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4564-4573	2	13
15	A Robust Inverse Approach for Magnetic Material Characterization in Electromagnetic Devices With Minimum Influence of the Air-Gap Uncertainty. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4364-4367	2	6
14	Low-parametric induced current - magnetic resonance electrical impedance tomography for quantitative conductivity estimation of brain tissues using a priori information: a simulation study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 5669-72	0.9	5
13	A Mesoscopic Hysteresis Model Based on the Unconstrained Minimization of the Gibbs Free Energy. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 220-223	2	2

12	An Inverse Approach for Magnetic Material Characterization of an EI Core Electromagnetic Inductor. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 622-625	2	17
11	A Two-Level Genetic Algorithm for Electromagnetic Optimization. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 2585-2595	2	33
10	Stochastic Uncertainty Quantification of the Conductivity in EEG Source Analysis by Using Polynomial Chaos Decomposition. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 3457-3460	2	13
9	Optimization of an Octangular Double-Layered Shield Using Multiple Forward Models. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 1586-1589	2	2
8	Validation of the Two-Level Approach for the Solution of the EEG Inverse Problem in an Anisotropic Realistic Head Model. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 1670-1673	2	6
7	Characterization and optimization of a permanent magnet synchronous machine. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2009 , 28, 272-285	0.7	10
6	Two-Level Response and Parameter Mapping Optimization for Magnetic Shielding. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 301-308	2	23
5	Local Identification of Magnetic Hysteresis Properties Near Cutting Edges of Electrical Steel Sheets. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1010-1013	2	26
4	Analysis of the Local Material Degradation Near Cutting Edges of Electrical Steel Sheets. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3173-3176	2	46
3	A hybrid algorithm for solving the EEG inverse problem from spatio-temporal EEG data. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 767-77	3.1	5
2	Influence of noise on EEG source analysis using space mapping techniques. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2007 , 25, 383-387	0.4	1
1	Space Mapping Optimization of the Magnetic Circuit of Electrical Machines Including Local Material Degradation. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2609-2611	2	43