Changming Cheng

List of Publications by Year
in descending order

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22 papers	1,371 citations	687363 13 h-index	677142 22 g-index
24 all docs	24 docs citations	24 times ranked	1772 citing authors

#	Article	IF	Citations
1	Identification of Sparse Volterra Systems: An Almost Orthogonal Matching Pursuit Approach. IEEE Transactions on Automatic Control, 2022, 67, 2027-2032.	5.7	4
2	A two-stage sparse algorithm for localization and characterization of local nonlinear structures. Journal of Sound and Vibration, 2022, 526, 116823.	3.9	4
3	Identification of Bouc-Wen hysteretic systems based on a joint optimization approach. Mechanical Systems and Signal Processing, 2022, 180, 109404.	8.0	5
4	A hybrid classification autoencoder for semi-supervised fault diagnosis in rotating machinery. Mechanical Systems and Signal Processing, 2021, 149, 107327.	8.0	126
5	Variable Selection According to Goodness of Fit in Nonparametric Nonlinear System Identification. IEEE Transactions on Automatic Control, 2021, 66, 3184-3196.	5.7	2
6	An Interpretable Denoising Layer for Neural Networks Based on Reproducing Kernel Hilbert Space and its Application in Machine Fault Diagnosis. Chinese Journal of Mechanical Engineering (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 53	3.7	10
7	Hybrid Pre-Training Strategy for Deep Denoising Neural Networks and Its Application in Machine Fault Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	9
8	Rub-Impact Fault Diagnosis of Rotating Machinery Based on 1-D Convolutional Neural Networks. IEEE Sensors Journal, 2020, 20, 8349-8363.	4.7	35
9	An ultrasensitive and selective fluorescent nanosensor based on porphyrinic metalâ€“organic framework nanoparticles for Cu²⁺ detection. Analyst, The, 2020, 145, 797-804.	3.5	31
10	Detecting the Early Damages in Structures With Nonlinear Output Frequency Response Functions and the CNN-LSTM Model. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9557-9567.	4.7	55
11	Porphyrinic Metalâ€“Organic Framework Nanorod-Based Dual-Modal Nanoprobe for Sensing and Bioimaging of Phosphate. ACS Applied Materials & Interfaces, 2020, 12, 26391-26398.	8.0	47
12	Consistent Variable Selection for a Nonparametric Nonlinear System by Inverse and Contour Regressions. IEEE Transactions on Automatic Control, 2019, 64, 2653-2664.	5.7	4
13	Variable selection of high-dimensional non-parametric nonlinear systems by derivative averaging to avoid the curse of dimensionality. Automatica, 2019, 101, 138-149.	5.0	9
14	Porphyrinic Metalâ€“Organic Framework PCN-224 Nanoparticles for Near-Infrared-Induced Attenuation of Aggregation and Neurotoxicity of Alzheimerâ€™s Amyloid-Î² Peptide. ACS Applied Materials & Interfaces, 2018, 10, 36615-36621.	8.0	107
15	Ultrasmall Metalâ€“Organic Framework Zn-MOF-74 Nanodots: Size-Controlled Synthesis and Application for Highly Selective Colorimetric Sensing of Iron(III) in Aqueous Solution. ACS Applied Nano Materials, 2018, 1, 3747-3753.	5.0	86
16	A graphene quantum dot@Fe 3 O 4 @SiO 2 based nanoprobe for drug delivery sensing and dual-modal fluorescence and MRI imaging in cancer cells. Biosensors and Bioelectronics, 2017, 92, 489-495.	10.1	145
17	Capillary electrophoresis coupled with inâ€column fiberâ€optic laserâ€induced fluorescence detection for the rapid separation of neodymium. Electrophoresis, 2016, 37, 2657-2662.	2.4	1
18	Facile Fabrication of Mn₂O₃ Nanoparticle-Assembled Hierarchical Hollow Spheres and Their Sensing for Hydrogen Peroxide. ACS Applied Materials & Interfaces, 2015, 7, 9526-9533.	8.0	88

#	Article	IF	Citations
19	Anodic Electrogenerated Chemiluminescence Behavior of Graphite-Like Carbon Nitride and Its Sensing for Rutin. Analytical Chemistry, 2013, 85, 2601-2605.	6.5	199
20	Low-potential amperometric detection of dopamine based on MnO2 nanowires/chitosan modified gold electrode. Electrochimica Acta, 2013, 89, 832-839.	5.2	42
21	Electrogenerated Chemiluminescence Behavior of Graphite-like Carbon Nitride and Its Application in Selective Sensing Cu²⁺. Analytical Chemistry, 2012, 84, 4754-4759.	6.5	344
22	Large enhancement of sensitivity and a wider working range of glass pH electrode with amperometric and potentiometric responses. Electrochimica Acta, 2011, 56, 9883-9886.	5.2	8