

# Guang Meng

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

2,636  
citations

257450

24  
h-index

182427

51  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2325  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrostatic pull-in instability in MEMS/NEMS: A review. <i>Sensors and Actuators A: Physical</i> , 2014, 214, 187-218.	4.1	432
2	A review on slip models for gas microflows. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 845-882.	2.2	256
3	Nonlinear Chirp Mode Decomposition: A Variational Method. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 6024-6037.	5.3	213
4	Separation of Overlapped Non-Stationary Signals by Ridge Path Regrouping and Intrinsic Chirp Component Decomposition. <i>IEEE Sensors Journal</i> , 2017, 17, 5994-6005.	4.7	140
5	Parameterised time-frequency analysis methods and their engineering applications: A review of recent advances. <i>Mechanical Systems and Signal Processing</i> , 2019, 119, 182-221.	8.0	138
6	Nonlinear motions of a flexible rotor with a drill bit: stick-slip and delay effects. <i>Nonlinear Dynamics</i> , 2013, 72, 61-77.	5.2	119
7	Adaptive chirp mode pursuit: Algorithm and applications. <i>Mechanical Systems and Signal Processing</i> , 2019, 116, 566-584.	8.0	112
8	Multicomponent Signal Analysis Based on Polynomial Chirplet Transform. <i>IEEE Transactions on Industrial Electronics</i> , 2013, 60, 3948-3956.	7.9	85
9	Coupled axial-torsional dynamics in rotary drilling with state-dependent delay: stability and control. <i>Nonlinear Dynamics</i> , 2014, 78, 1891-1906.	5.2	78
10	A broadband compressive-mode vibration energy harvester enhanced by magnetic force intervention approach. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	77
11	Tunable Micro- and Nanomechanical Resonators. <i>Sensors</i> , 2015, 15, 26478-26566.	3.8	75
12	State-Dependent Delay Influenced Drill-String Oscillations and Stability Analysis. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2014, 136, .	1.6	65
13	Component Extraction for Non-Stationary Multi-Component Signal Using Parameterized De-chirping and Band-Pass Filter. <i>IEEE Signal Processing Letters</i> , 2015, 22, 1373-1377.	3.6	65
14	Y-type three-blade bluff body for wind energy harvesting. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	64
15	Application of Parameterized Time-Frequency Analysis on Multicomponent Frequency Modulated Signals. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 3169-3180.	4.7	59
16	Label-free manipulation via the magneto-Archimedes effect: fundamentals, methodology and applications. <i>Materials Horizons</i> , 2019, 6, 1359-1379.	12.2	59
17	Detecting the Early Damages in Structures With Nonlinear Output Frequency Response Functions and the CNN-LSTM Model. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 9557-9567.	4.7	55
18	Accurate and Robust Displacement Measurement for FMCW Radar Vibration Monitoring. <i>IEEE Sensors Journal</i> , 2018, 18, 1131-1139.	4.7	54

#	ARTICLE	IF	CITATIONS
19	Resolving local reaction environment toward an optimized CO <sub>2</sub> -to-CO conversion performance. <i>Energy and Environmental Science</i> , 2022, 15, 749-759.	30.8	48
20	Multiple regenerative effects in cutting process and nonlinear oscillations. <i>International Journal of Dynamics and Control</i> , 2014, 2, 86-101.	2.5	35
21	Regulating surface wrinkles using light. <i>National Science Review</i> , 2020, 7, 1247-1257.	9.5	30
22	Dynamics of suspended microchannel resonators conveying opposite internal fluid flow: Stability, frequency shift and energy dissipation. <i>Journal of Sound and Vibration</i> , 2016, 368, 103-120.	3.9	29
23	Delamination-Free Functional Graphene Surface by Multiscale, Conformal Wrinkling. <i>Advanced Functional Materials</i> , 2020, 30, 2003273.	14.9	29
24	Doppler Frequency Estimation by Parameterized Time-Frequency Transform and Phase Compensation Technique. <i>IEEE Sensors Journal</i> , 2018, 18, 3734-3744.	4.7	27
25	A new procedure for the prediction of the cutting forces in peripheral milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 1709-1715.	3.0	20
26	An Interpretable Denoising Layer for Neural Networks Based on Reproducing Kernel Hilbert Space and its Application in Machine Fault Diagnosis. <i>Chinese Journal of Mechanical Engineering (English)</i> Tj ETQq0 0 0 rgBT /@vlock 10 Tf 50 45	10.7	10
27	Tunable rotating-mode density measurement using magnetic levitation. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	18
28	A centrifugal magnetic levitation approach for high-reliability density measurement. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 64-70.	7.8	18
29	Inclination Effects on the Frequency Tuning of Comb-Driven Resonators. <i>Journal of Microelectromechanical Systems</i> , 2013, 22, 865-875.	2.5	17
30	Bioinspired Variable Stiffness Dielectric Elastomer Actuators with Large and Tunable Load Capacity. <i>Soft Robotics</i> , 2019, 6, 631-643.	8.0	17
31	Property Analysis of the Rough Slider Bearings in Micromotors for MEMS Applications. <i>IEEE/ASME Transactions on Mechatronics</i> , 2009, 14, 465-473.	5.8	15
32	Electrically Activated Soft Robots: Speed Up by Rolling. <i>Soft Robotics</i> , 2021, 8, 611-624.	8.0	15
33	Magnetic levitation using diamagnetism: Mechanism, applications and prospects. <i>Science China Technological Sciences</i> , 2021, 64, 44-58.	4.0	15
34	An Effective Accuracy Evaluation Method for LFMCW Radar Displacement Monitoring With Phasor Statistical Analysis. <i>IEEE Sensors Journal</i> , 2019, 19, 12224-12234.	4.7	14
35	Nonlinear Dynamic Analysis of Atomic Force Microscopy Under Bounded Noise Parametric Excitation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011, 16, 1063-1072.	5.8	13
36	Theoretical and experimental study on dynamic characteristics of V-shaped beams immersed in viscous fluids: From small to finite amplitude. <i>Journal of Fluids and Structures</i> , 2018, 82, 215-244.	3.4	13

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37	Dynamic Characteristics of Micro-Beams Considering the Effect of Flexible Supports. <i>Sensors</i> , 2013, 13, 15880-15897.	3.8	12
38	Effect of random surface topography on the gaseous flow in microtubes with an extended slip model. <i>Microfluidics and Nanofluidics</i> , 2015, 18, 897-910.	2.2	11
39	Millimeter-Wave Bat for Mapping and Quantifying Micromotions in Full Field of View. <i>Research</i> , 2021, 2021, 9787484.	5.7	11
40	Density-Based Measurement and Manipulation via Magnetic Levitation Enhanced by the Dual-Halbach Array. <i>IEEE Sensors Journal</i> , 2020, 20, 1730-1737.	4.7	9
41	Hybrid Pre-Training Strategy for Deep Denoising Neural Networks and Its Application in Machine Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	4.7	9
42	Slip model for the ultra-thin gas-lubricated slider bearings of an electrostatic micromotor in MEMS. <i>Microsystem Technologies</i> , 2009, 15, 953-961.	2.0	8
43	Finite Volume Modeling of Gas Flow in Microbearings with Rough Surface Topography. <i>Tribology Transactions</i> , 2016, 59, 99-107.	2.0	8
44	A semi-analytical method for stability analysis of milling thin-walled plate. <i>Meccanica</i> , 2017, 52, 2915-2929.	2.0	7
45	Microwave Vibrometry: Noncontact Vibration and Deformation Measurement Using Radio Signals. <i>IEEE Instrumentation and Measurement Magazine</i> , 2022, 25, 16-26.	1.6	7
46	Dynamical characteristics of fluid-conveying microbeams actuated by electrostatic force. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	4
47	Thermoelastic damping in optical waveguide resonators with the bolometric effect. <i>Physical Review E</i> , 2014, 89, 063203.	2.1	3
48	Online Structural Health Monitoring of Rotating Machinery via Ultrasonic Guided Waves. <i>Shock and Vibration</i> , 2018, 2018, 1-12.	0.6	3
49	Magnetically coupled flextensional transducer for impulsive energy harvesting. , 2017, , .		1
50	Vibration control of a lead zirconate titanate structure considering controller-structure interactions. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2018, 37, 1201-1218.	2.9	1
51	Highly band-selective meta-surfaces exhibiting perfect near infrared absorption and concurrent visible band sensing: A numerical study. <i>Science China Technological Sciences</i> , 2022, 65, 809-816.	4.0	1