

# Qiu-Hua Gao

## List of Publications by Year in descending order

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42  
papers

1,725  
citations

257450

24  
h-index

276875

41  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pump-free microfluidic magnetic levitation approach for density-based cell characterization. <i>Biosensors and Bioelectronics</i> , 2022, 204, 114052.	10.1	12
2	Piezoelectric Dynamics of Arterial Pulse for Wearable Continuous Blood Pressure Monitoring. <i>Advanced Materials</i> , 2022, 34, e2110291.	21.0	93
3	Design and Experiment of Mass Warning Resonant Sensor Induced by Modal Coupling. <i>IEEE Sensors Journal</i> , 2022, 22, 11562-11574.	4.7	3
4	Anisotropic Acoustodynamics in Gigahertz Piezoelectric Ultrasonic Transducers. <i>IEEE Electron Device Letters</i> , 2022, 43, 1117-1120.	3.9	2
5	Electrically Activated Soft Robots: Speed Up by Rolling. <i>Soft Robotics</i> , 2021, 8, 611-624.	8.0	15
6	Batteryless Tire Pressure Real-Time Monitoring System Driven by an Ultralow Frequency Piezoelectric Rotational Energy Harvester. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 3192-3201.	7.9	45
7	Magnetic levitation using diamagnetism: Mechanism, applications and prospects. <i>Science China Technological Sciences</i> , 2021, 64, 44-58.	4.0	15
8	Flexible Piezo-Mems Fabrication Process Based on Thinned Piezoelectric Thick Film. , 2021, , .		1
9	Adjustable stiffness elastic composite soft actuator for fast-moving robots. <i>Science China Technological Sciences</i> , 2021, 64, 1663-1675.	4.0	12
10	Fault diagnosis of planetary gearbox under variable-speed conditions using an improved adaptive chirp mode decomposition. <i>Journal of Sound and Vibration</i> , 2020, 468, 115065.	3.9	49
11	Hierarchical 3D Patterns with Dynamic Wrinkles Produced by a Photocontrolled Diels-Alder Reaction on the Surface. <i>Advanced Materials</i> , 2020, 32, e1906712.	21.0	45
12	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
13	Bio-inspired polygonal skeleton structure for vibration isolation: Design, modelling, and experiment. <i>Science China Technological Sciences</i> , 2020, 63, 2617-2630.	4.0	51
14	Regulating surface wrinkles using light. <i>National Science Review</i> , 2020, 7, 1247-1257.	9.5	30
15	Differential Enhancement Method for Robust and Accurate Heart Rate Monitoring via Microwave Vital Sign Sensing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 7108-7118.	4.7	51
16	Ultra-broadband piezoelectric energy harvesting via bistable multi-hardening and multi-softening. <i>Nonlinear Dynamics</i> , 2020, 100, 1057-1077.	5.2	30
17	Nonlinear characterization and performance optimization for broadband bistable energy harvester. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2020, 36, 578-591.	3.4	23
18	Label-free manipulation via the magneto-Archimedes effect: fundamentals, methodology and applications. <i>Materials Horizons</i> , 2019, 6, 1359-1379.	12.2	59

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19	High-accuracy fault feature extraction for rolling bearings under time-varying speed conditions using an iterative envelope-tracking filter. <i>Journal of Sound and Vibration</i> , 2019, 448, 211-229.	3.9	61
20	A centrifugal magnetic levitation approach for high-reliability density measurement. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 64-70.	7.8	18
21	An Effective Accuracy Evaluation Method for LFM CW Radar Displacement Monitoring With Phasor Statistical Analysis. <i>IEEE Sensors Journal</i> , 2019, 19, 12224-12234.	4.7	14
22	Magnetically modulated orbit for human motion energy harvesting. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	53
23	Uncertainty quantification for stochastic dynamical systems using time-dependent stochastic bases. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 63-84.	3.6	3
24	Nonlinear dynamic analysis of a photonic crystal nanocavity resonator. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2019, 40, 139-152.	3.6	4
25	Warped Variational Mode Decomposition With Application to Vibration Signals of Varying-Speed Rotating Machineries. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 2755-2767.	4.7	29
26	Tunable rotating-mode density measurement using magnetic levitation. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	18
27	Accurate and Robust Displacement Measurement for FMCW Radar Vibration Monitoring. <i>IEEE Sensors Journal</i> , 2018, 18, 1131-1139.	4.7	54
28	Doppler Frequency Estimation by Parameterized Time-Frequency Transform and Phase Compensation Technique. <i>IEEE Sensors Journal</i> , 2018, 18, 3734-3744.	4.7	27
29	Nonstationary Signal Denoising Using an Envelope-Tracking Filter. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 2004-2015.	5.8	20
30	Non-stationary signal analysis based on general parameterized time-frequency transform and its application in the feature extraction of a rotary machine. <i>Frontiers of Mechanical Engineering</i> , 2018, 13, 292-300.	4.3	11
31	Reversible Surface Patterning by Dynamic Crosslink Gradients: Controlling Buckling in 2D. <i>Advanced Materials</i> , 2018, 30, e1803463.	21.0	45
32	Intrinsic chirp component decomposition by using Fourier Series representation. <i>Signal Processing</i> , 2017, 137, 319-327.	3.7	88
33	Accurate Measurement in Doppler Radar Vital Sign Detection Based on Parameterized Demodulation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017, 65, 4483-4492.	4.6	54
34	Nonlinear Chirp Mode Decomposition: A Variational Method. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 6024-6037.	5.3	213
35	Design and Analysis of a Bistable Vibration Energy Harvester Using Diamagnetic Levitation Mechanism. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-9.	2.1	19
36	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

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37	Chirplet Path Fusion for the Analysis of Time-Varying Frequency-Modulated Signals. IEEE Transactions on Industrial Electronics, 2017, 64, 1370-1380.	7.9	32
38	Static clutter elimination for frequency-modulated continuous-wave radar displacement measurement based on phasor offset compensation. Electronics Letters, 2017, 53, 1491-1493.	1.0	15
39	Time-Varying Frequency-Modulated Component Extraction Based on Parameterized Demodulation and Singular Value Decomposition. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 276-285.	4.7	53
40	Component Extraction for Non-Stationary Multi-Component Signal Using Parameterized De-chirping and Band-Pass Filter. IEEE Signal Processing Letters, 2015, 22, 1373-1377.	3.6	65
41	Application of Parameterized Time-Frequency Analysis on Multicomponent Frequency Modulated Signals. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 3169-3180.	4.7	59
42	Multicomponent Signal Analysis Based on Polynomial Chirplet Transform. IEEE Transactions on Industrial Electronics, 2013, 60, 3948-3956.	7.9	85