# Wei Cheng

## List of Publications by Year
in descending order

| 54 papers | 607 citations | 623734<br>14 h-index | 677142<br>22 g-index |
|:---:|:---:|:---:|:---:|
| 54 all docs | 54 docs citations | 54 times ranked | 438 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | A data- and knowledge-driven framework for digital twin manufacturing cell. Procedia CIRP, 2019, 83, 345-350. | 1.9 | 68 |
| 2 | Independent component analysis based source number estimation and its comparison for mechanical systems. Journal of Sound and Vibration, 2012, 331, 5153-5167. | 3.9 | 45 |
| 3 | EEG classification for motor imagery and resting state in BCI applications using multi-class Adaboost extreme learning machine. Review of Scientific Instruments, 2016, 87, 085110. | 1.3 | 44 |
| 4 | Tikhonov regularization-based operational transfer path analysis. Mechanical Systems and Signal Processing, 2016, 75, 494-514. | 8.0 | 35 |
| 5 | A novel underdetermined blind source separation method with noise and unknown source number. Journal of Sound and Vibration, 2019, 457, 67-91. | 3.9 | 34 |
| 6 | A maintenance decision-making oriented collaborative cross-organization knowledge sharing blockchain network for complex multi-component systems. Journal of Cleaner Production, 2021, 282, 124541. | 9.3 | 31 |
| 7 | A service-oriented multi-player maintenance grouping strategy for complex multi-component system based on game theory. Advanced Engineering Informatics, 2019, 42, 100970. | 8.0 | 28 |
| 8 | Recent progress in engineering functional biohybrid robots actuated by living cells. Acta Biomaterialia, 2021, 121, 29-40. | 8.3 | 26 |
| 9 | Source Contribution Evaluation of Mechanical Vibration Signals via Enhanced Independent Component Analysis. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, . | 2.2 | 25 |
| 10 | Convolutive blind source separation in frequency domain with kurtosis maximization by modified conjugate gradient. Mechanical Systems and Signal Processing, 2019, 134, 106331. | 8.0 | 23 |
| 11 | A Comparative Study of Information-Based Source Number Estimation Methods and Experimental Validations on Mechanical Systems. Sensors, 2014, 14, 7625-7646. | 3.8 | 17 |
| 12 | Investigations of denoising source separation technique and its application to source separation and identification of mechanical vibration signals. JVC/Journal of Vibration and Control, 2014, 20, 2100-2117. | 2.6 | 17 |
| 13 | A Comprehensive Study of Vibration Signals for a Thin Shell Structure Using Enhanced Independent Component Analysis and Experimental Validation. Journal of Vibration and Acoustics, Transactions of the ASME, 2014, 136, . | 1.6 | 14 |
| 14 | Kurtosis-Based Constrained Independent Component Analysis and Its Application on Source Contribution Quantitative Estimation. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1842-1854. | 4.7 | 14 |
| 15 | Detecting the bonding state of explosive welding structures based on EEMD and sensitive IMF time entropy. Smart Materials and Structures, 2014, 23, 075010. | 3.5 | 13 |
| 16 | Operational transfer path analysis with crosstalk cancellation using independent component analysis. Journal of Sound and Vibration, 2020, 473, 115224. | 3.9 | 12 |
| 17 | Underdetermined convolutive blind source separation in the time–frequency domain based on single source points and experimental validation. Measurement Science and Technology, 2020, 31, 095001. | 2.6 | 11 |
| 18 | Modified breathing mechanism model and phase waterfall plot diagnostic method for cracked rotors. Journal of Mechanical Science and Technology, 2018, 32, 2527-2539. | 1.5 | 10 |

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|---|---------|----|-----------|
| 19 | EEMD-1.5 Dimension Spectrum Applied to Locomotive Gear Fault Diagnosis. , 2009, , . | | 9 |
| 20 | A Novel Underdetermined Blind Source Separation Method and Its Application to Source Contribution Quantitative Estimation. Sensors, 2019, 19, 1413. | 3.8 | 9 |
| 21 | Enhance the Separation Performance of ICA via Clustering Evaluation and Its Applications. Advanced Science Letters, 2011, 4, 1951-1956. | 0.2 | 9 |
| 22 | Manifold subspace distance derived from kernel principal angles and its application to machinery structural damage assessment. Smart Materials and Structures, 2013, 22, 085012. | 3.5 | 8 |
| 23 | A novel manifold–manifold distance index applied to looseness state assessment of viscoelastic sandwich structures. Smart Materials and Structures, 2014, 23, 065019. | 3.5 | 8 |
| 24 | Support evidence statistics for operation reliability assessment using running state information and its application to rolling bearing. Mechanical Systems and Signal Processing, 2015, 60-61, 344-357. | 8.0 | 8 |
| 25 | Mechanism explanation and experimental verification of a new modulation frequency characteristic in a disturbed crack rotor. Nonlinear Dynamics, 2019, 95, 597-616. | 5.2 | 7 |
| 26 | State detection of explosive welding structure by dual-tree complex wavelet transform based permutation entropy. Steel and Composite Structures, 2015, 19, 569-583. | 1.3 | 7 |
| 27 | Composite Fault Diagnosis of Rolling Bearing Based on Chaotic Honey Badger Algorithm Optimizing VMD and ELM. Machines, 2022, 10, 469. | 2.2 | 7 |
| 28 | Model Updating of Spindle Systems Based on the Identification of Joint Dynamics. Shock and Vibration, 2015, 2015, 1-10. | 0.6 | 6 |
| 29 | Post-nonlinear blind source separation with kurtosis constraints using augmented Lagrangian particle swarm optimization and its application to mechanical systems. JVC/Journal of Vibration and Control, 2019, 25, 2246-2260. | 2.6 | 6 |
| 30 | Noise source identification and localization of mechanical systems based on an enhanced independent component analysis. JVC/Journal of Vibration and Control, 2016, 22, 1128-1142. | 2.6 | 5 |
| 31 | Phase-based spectrum analysis method for identifying weak harmonics. JVC/Journal of Vibration and Control, 2018, 24, 5585-5596. | 2.6 | 5 |
| 32 | A combined crosstalk cancellation method based on wavelet packet denoising and Welch's method for operational transfer path analysis. Measurement Science and Technology, 2019, 30, 065011. | 2.6 | 5 |
| 33 | Enhanced Descending Corticomuscular Coupling During Hand Grip With Static Force Compared With Enhancing Force. Clinical EEG and Neuroscience, 2021, 52, 436-443. | 1.7 | 5 |
| 34 | A customized scheme of crosstalk cancellation for operational transfer path analysis and experimental validation. Journal of Sound and Vibration, 2021, 515, 116506. | 3.9 | 5 |
| 35 | Online blind source separation method with adaptive step size in both time-invariant and time-varying cases. Measurement Science and Technology, 2020, 31, 045102. | 2.6 | 4 |
| 36 | A combined sound field reconstruction method for large cylindrical surfaces using non-conformal plane measurement. Measurement Science and Technology, 2022, 33, 015009. | 2.6 | 4 |

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|---|---------|-----|-----------|
| 37 | Conical Statistical Optimal Near-Field Acoustic Holography with Combined Regularization. Sensors, 2021, 21, 7150. | 3.8 | 4 |
| 38 | An accurate and reliable operational transfer path analysis for transfer path contribution evaluation based on Landweber iterative method. Measurement Science and Technology, 2020, 31, 025102. | 2.6 | 3 |
| 39 | Research on Intelligent Diagnosis of Mechanical Fault Based on Ant Colony Algorithm. Advances in Intelligent and Soft Computing, 2009, , 631-640. | 0.2 | 3 |
| 40 | Resolution enhanced statistically optimal cylindrical near-field acoustic holography based on equivalent source method. Measurement Science and Technology, 2022, 33, 055015. | 2.6 | 3 |
| 41 | An efficient equivariant adaptive separation via independence algorithm for acoustical source separation and identification. Science China Technological Sciences, 2016, 59, 1825-1836. | 4.0 | 2 |
| 42 | An improved independent component analysis by reference signals and its application on source contribution estimation. , 2013, , . |  | 1 |
| 43 | Acoustical Source Tracing Using Independent Component Analysis and Correlation Analysis. Shock and Vibration, 2015, 2015, 1-8. | 0.6 | 1 |
| 44 | A source contribution quantitative calculation method for mechanical systems based on the simplified independent component analysis with reference. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 3222-3240. | 2.1 | 1 |
| 45 | A fuzzy support vector machine based on environmental membership and its application to motor fault classification. JVC/Journal of Vibration and Control, 2018, 24, 5681-5692. | 2.6 | 1 |
| 46 | Intelligent Technique and Its Application in Fault Diagnosis of Locomotive Bearing Based on Granular Computing. Lecture Notes in Computer Science, 2009, , 744-754. | 1.3 | 1 |
| 47 | Nonlinear factor analysis and its application to acoustical source separation and identification. Journal of Vibroengineering, 2016, 18, 3397-3411. | 1.0 | 1 |
| 48 | System-level Anomaly Detection for Nuclear Power Plants Using Variational Graph Auto-encoders. , 2021, , . |  | 1 |
| 49 | AR model-based crosstalk cancellation method for operational transfer path analysis. Journal of Mechanical Science and Technology, 2022, 36, 1131-1144. | 1.5 | 1 |
| 50 | Intelligent fault diagnosis based on granular computing. , 2008, , . |  | 0 |
| 51 | Dissimilarity Measures for ICA-Based Source Number Estimation. , 2012, , . |  | 0 |
| 52 | Damped SVD for operational transfer path analysis. , 2016, , . |  | 0 |
| 53 | Transfer Path Analysis and Contribution Evaluation Using SVD- and PCA-Based Operational Transfer Path Analysis. Shock and Vibration, 2020, 2020, 1-23. | 0.6 | 0 |
| 54 | A combined sound field reconstruction method for non-cylindrical rotative surfaces based on statistically optimal cylindrical near-field acoustic holography and multipoint Helmholtz equation least square. JVC/Journal of Vibration and Control, 0, , 107754632210948. | 2.6 | 0 |