

# Benfeng Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

133  
citations

1478505

6  
h-index

1281871

11  
g-index

23  
all docs

23  
docs citations

23  
times ranked

38  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Use of Hierarchical Cascading Technique for FEM Analysis of Transverse-Mode Behaviors in Surface Acoustic-Wave Devices. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1920-1926.                | 3.0 | 27        |
| 2  | Analysis of SAW Scattering With Discontinuous Periodic Gratings Using Travelling Wave Excitation and Hierarchical Cascading Technique. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1255-1263. | 3.0 | 6         |
| 3  | Traveling wave excitation sources for FEM analysis of scattering in acoustic waveguide. Microsystem Technologies, 2019, 25, 2783-2792.   | 2.0 | 8         |
| 4  | Influence of Coupling Between Rayleigh and SH SAWs on Rotated $\text{LiNbO}_3$ Cut $\text{LiNbO}_3$ to Their Propagations. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1905-1913.             | 3.0 | 7         |
| 5  | Model parameter extraction of lateral propagating surface acoustic waves with coupling on $\text{SiO}_2/\text{grating}/\text{LiNbO}_3$ structure. Japanese Journal of Applied Physics, 2018, 57, 07LD04.                             | 1.5 | 0         |
| 6  | Impact of Coupling Between Multiple SAW Modes on Piston Mode Operation of SAW Resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1062-1068.  | 3.0 | 7         |
| 7  | Wavenumber domain analysis of surface acoustic wave scattering from localized gratings on layered piezoelectric substrate. Ultrasonics, 2018, 88, 131-136.   | 3.9 | 2         |
| 8  | FEM -Based Estimation of SAW Power Flow Angle in Periodic Gratings. , 2018, , .  |     | 2         |
| 9  | Transverse Modes in Temperature Compensated Surface Acoustic Wave Devices. , 2018, , .   |     | 6         |
| 10 | Use of Hierarchical Cascading Technique for FEM Analysis of Transverse Mode Behaviors in Surface Acoustic Wave Devices. , 2018, , .  |     | 5         |
| 11 | Analysis of SAW Scattering at Discontinuity Between Periodic Gratings Using Travelling Wave Excitation and Hierarchical Cascading Technique. , 2018, , .   |     | 4         |
| 12 | Use of double-raised-border structure for quality factor enhancement of type II piston mode FBAR. Microsystem Technologies, 2018, 24, 2991-2997.   | 2.0 | 6         |
| 13 | Application of hierarchical cascading technique to finite element method simulation in bulk acoustic wave devices. Japanese Journal of Applied Physics, 2018, 57, 07LC08.  | 1.5 | 17        |
| 14 | Parameter extraction of coupling-of-modes equations including coupling between two surface acoustic waves on $\text{SiO}_2/\text{Cu}/\text{LiNbO}_3$ structures. Japanese Journal of Applied Physics, 2018, 57, 07LD13.              | 1.5 | 3         |
| 15 | Modeling and Analysis of Lateral Propagation of Surface Acoustic Waves Including Coupling Between Different Waves. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1354-1360.                     | 3.0 | 10        |
| 16 | Impact of coupling between multiple SAW modes on piston mode operation of SAW resonators. , 2017, , .  |     | 0         |
| 17 | Influence of coupling between Rayleigh and SH SAWs on rotated Y-cut $\text{LiNbO}_3$ to their electromechanical coupling factor. , 2017, , .   |     | 2         |
| 18 | Traveling wave excitation for FEM simulation of RF SAW/BAW devices. , 2017, , .  |     | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | A new threshold determination algorithm for SAW resonant sensors. , 2017, , .   |     | 0         |
| 20 | Model parameter extraction for obliquely propagating surface acoustic waves in infinitely long grating structures. Japanese Journal of Applied Physics, 2016, 55, 07KD08. | 1.5 | 15        |
| 21 | Frequency domain FEM analysis of reflector scattering characteristics for SAW tags. , 2016, , .   |     | 2         |
| 22 | Modeling of lateral SAW propagation including coupling between different SAW modes. , 2016, , .   |     | 3         |