

Jinwook Kim

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,698
citations

361296

20
h-index

315616

38
g-index

60
all docs

60
docs citations

60
times ranked

1537
citing authors

#	ARTICLE	IF	CITATIONS
1	Advantages and challenges of relaxor-PbTiO ₃ ferroelectric crystals for electroacoustic transducers – A review. <i>Progress in Materials Science</i> , 2015, 68, 1-66.	16.0	607
2	A laser ultrasound transducer using carbon nanofibers–polydimethylsiloxane composite thin film. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	103
3	Candle soot nanoparticles-polydimethylsiloxane composites for laser ultrasound transducers. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	98
4	Spatiotemporal drug delivery using laser-generated-focused ultrasound system. <i>Journal of Controlled Release</i> , 2015, 220, 592-599.	4.8	68
5	Intravascular forward-looking ultrasound transducers for microbubble-mediated sonothrombolysis. <i>Scientific Reports</i> , 2017, 7, 3454.	1.6	65
6	High-temperature electromechanical characterization of AlN single crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 1880-1887.	1.7	63
7	Relaxor-PT Single Crystal Piezoelectric Sensors. <i>Crystals</i> , 2014, 4, 351-376.	1.0	53
8	A Novel Laser Ultrasound Transducer Using Candle Soot Carbon Nanoparticles. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 395-401.	1.1	43
9	Nanodroplet-mediated catheter-directed sonothrombolysis of retracted blood clots. <i>Microsystems and Nanoengineering</i> , 2021, 7, 3.	3.4	41
10	A Comparison of Sonothrombolysis in Aged Clots between Low-Boiling-Point Phase-Change Nanodroplets and Microbubbles of the Same Composition. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 3059-3068.	0.7	38
11	Phantom evaluation of stacked-type dual-frequency 1–3 composite transducers: A feasibility study on intracavitary acoustic angiography. <i>Ultrasonics</i> , 2015, 63, 7-15.	2.1	37
12	Evaluation of Photoacoustic Transduction Efficiency of Candle Soot Nanocomposite Transmitters. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 985-993.	1.1	37
13	Homogenization of PMN-PT/epoxy 1–3 piezocomposites by resonator measurements and finite element analysis. <i>Sensors and Actuators A: Physical</i> , 2014, 206, 97-106.	2.0	35
14	Candle-Soot Carbon Nanoparticles in Photoacoustics: Advantages and Challenges for Laser Ultrasound Transmitters. <i>IEEE Nanotechnology Magazine</i> , 2019, 13, 13-28.	0.9	32
15	Static Force Measurement Using Piezoelectric Sensors. <i>Journal of Sensors</i> , 2021, 2021, 1-8.	0.6	26
16	Dual-Frequency Piezoelectric Endoscopic Transducer for Imaging Vascular Invasion in Pancreatic Cancer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 1078-1086.	1.7	25
17	Magneto-sonothrombolysis with combination of magnetic microbubbles and nanodroplets. <i>Ultrasonics</i> , 2021, 116, 106487.	2.1	24
18	Dual-Frequency Intravascular Sonothrombolysis: An <i>In Vitro</i> Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 3599-3607.	1.7	23

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19	Acoustic holograms for directing arbitrary cavitation patterns. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	23
20	A multi-pillar piezoelectric stack transducer for nanodroplet mediated intravascular sonothrombolysis. <i>Ultrasonics</i> , 2021, 116, 106520.	2.1	23
21	Transit Time Difference Flowmeter for Intravenous Flow Rate Measurement Using 1â€³ Piezoelectric Composite Transducers. <i>IEEE Sensors Journal</i> , 2017, 17, 5741-5748.	2.4	20
22	Examining the Influence of Low-Dose Tissue Plasminogen Activator on Microbubble-Mediated Forward-Viewing Intravascular Sonothrombolysis. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 1698-1706.	0.7	19
23	Piezoelectric Floating Element Shear Stress Sensor for the Wind Tunnel Flow Measurement. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 7304-7312.	5.2	16
24	AlN Ultrasound Sensor for Photoacoustic Lamb Wave Detection in a High-Temperature Environment. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1444-1451.	1.7	15
25	Safety Evaluation of a Forward-Viewing Intravascular Transducer for Sonothrombolysis: An in Vitro and ex Vivo Study. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 3231-3239.	0.7	15
26	A 3 MHz/18 MHz dual-layer co-linear array for transrectal acoustic angiography. , 2015, , .		14
27	Laser-generated-focused ultrasound transducers for microbubble-mediated, dual-excitation sonothrombolysis. , 2016, , .		14
28	Determination of the complex material constants of PMNâ€²28%PT piezoelectric single crystals. <i>Smart Materials and Structures</i> , 2013, 22, 125027.	1.8	12
29	A Dual-Frequency Colinear Array for Acoustic Angiography in Prostate Cancer Evaluation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 2418-2428.	1.7	12
30	Miniaturized Focused Ultrasound Transducers for Intravascular Therapies. , 2017, , .		11
31	Direct Acoustic Imaging Using a Piezoelectric Organic Light-Emitting Diode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36409-36416.	4.0	9
32	A Novel Ultrasound Technique for Non-Invasive Assessment of Cell Differentiation. <i>IEEE Sensors Journal</i> , 2016, 16, 61-68.	2.4	7
33	A Face-Shear Mode Piezoelectric Array Sensor for Elasticity and Force Measurement. <i>Sensors</i> , 2020, 20, 604.	2.1	7
34	Design and Fabrication of Multi-mode Wideband Tonpilz Transducers. <i>Journal of the Acoustical Society of Korea</i> , 2013, 32, 191-198.	0.1	7
35	An Analysis of Sonothrombolysis and Cavitation for Retracted and Unretracted Clots Using Microbubbles Versus Low-Boiling-Point Nanodroplets. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 711-719.	1.7	7
36	Development of transmitters in dual-frequency transducers for interventional contrast enhanced imaging and acoustic angiography. , 2014, , .		5

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37	Optical fiber laser-generated-focused-ultrasound transducers for intravascular therapies. , 2017, , .		5
38	Modeling and Design of a Rear-Mounted Underwater Projector Using Equivalent Circuits. Sensors, 2020, 20, 7085.	2.1	4
39	A dual-frequency endoscopic transducer for imaging vascular invasion in pancreatic cancer. , 2016, , .		3
40	A Row-Column Arraya for Ultrasound-Based Tissue Anisotropy Measurement. , 2018, , .		3
41	Intravascular Sonothrombolysis, in vitro, Using a Small Aperture, Forward-Viewing, Sub-Megahertz Transducer to Enhance tPA Treatment. , 2019, , .		3
42	Nanodroplet Mediated Intravascular Sonothrombolysis of Retracted Clots. , 2020, , .		3
43	Dual-Frequency Intravascular Thrombolysis with Miniaturized Forward-Looking Transducers. , 2020, , .		3
44	Polyvinyl Alcohol Cryogels for Acoustic Characterization of Phase-Change Contrast Agents. Ultrasound in Medicine and Biology, 2022, 48, 954-960.	0.7	3
45	Dual-frequency transducer with a wideband PVDF receiver for contrast-enhanced, adjustable harmonic imaging. , 2017, , .		2
46	High temperature transducer using aluminum nitride single crystal for laser ultrasound detection. Proceedings of SPIE, 2017, , .	0.8	2
47	Photoacoustic transduction efficiency evaluation of candle soot nanoparticles/PDMS composites. , 2017, , .		2
48	Development of forward-looking ultrasound transducers for microbubble-aided intravascular ultrasound-enhanced thrombolysis. , 2017, , .		2
49	Nanodroplet-Mediated Intravascular Sonothrombolysis: Cavitation Study. , 2020, , .		2
50	Equivalent properties of 1-3 piezocomposites made of PMN-PT single crystals for underwater sonar transducers. Proceedings of SPIE, 2011, , .	0.8	1
51	Dual-frequency super harmonic imaging piezoelectric transducers for transrectal ultrasound. Proceedings of SPIE, 2015, , .	0.8	1
52	A novel laser ultrasound transducer using candle soot carbon nanoparticles. , 2015, , .		1
53	A dual-frequency co-linear array for prostate acoustic angiography. , 2016, , .		1
54	A piezoelectric shear stress sensor. , 2016, , .		1

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55	Derivation of Single Phase Material Properties Equivalent to 1-3 Piezoelectric Composites by the Resonant Method. Journal of the Acoustical Society of Korea, 2011, 30, 368-376.	0.1	1
56	Cavitation-Enhanced High-Pressure Pulsed Sonothrombolysis with Perfluorocarbon Nanodroplets versus Microbubbles in Contracted and Uncontracted Clots. , 2020, , .		1
57	Nanocomposite transducer with a laser ultarsound transmitter and a piezoelectric receiver. , 2016, , .		0
58	Micromachined 1â€“3 composite dual frequency IVUS array for contrast enhanced intravascular ultrasound imaging. , 2017, , .		0
59	Development of forward-looking ultrasound transducers for microbubble-aided intravascular ultrasound-enhanced thrombolysis. , 2017, , .		0
60	Intravascular Dual-frequency Ultrasound Transducer Using a Stack Composite. , 2021, , .		0