

# Byeongjin Park

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,246  
citations

471509

17  
h-index

454955

30  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualization of hidden delamination and debonding in composites through noncontact laser ultrasonic scanning. <i>Composites Science and Technology</i> , 2014, 100, 10-18.	7.8	171
2	Highly stretchable multi-walled carbon nanotube/thermoplastic polyurethane composite fibers for ultrasensitive, wearable strain sensors. <i>Nanoscale</i> , 2019, 11, 5884-5890.	5.6	162
3	Magnetic and dispersible FeCoNi-graphene film produced without heat treatment for electromagnetic wave absorption. <i>Chemical Engineering Journal</i> , 2019, 361, 1182-1189.	12.7	144
4	Complete noncontact laser ultrasonic imaging for automated crack visualization in a plate. <i>Smart Materials and Structures</i> , 2013, 22, 025022.	3.5	139
5	Absorption-dominant, low reflection EMI shielding materials with integrated metal mesh/TPU/CIP composite. <i>Chemical Engineering Journal</i> , 2022, 428, 131167.	12.7	95
6	Impact localization in complex structures using laser-based time reversal. <i>Structural Health Monitoring</i> , 2012, 11, 577-588.	7.5	77
7	Noncontact fatigue crack visualization using nonlinear ultrasonic modulation. <i>NDT and E International</i> , 2015, 73, 8-14.	3.7	48
8	Laser ultrasonic imaging and damage detection for a rotating structure. <i>Structural Health Monitoring</i> , 2013, 12, 494-506.	7.5	43
9	Underground Object Classification for Urban Roads Using Instantaneous Phase Analysis of Ground-Penetrating Radar (GPR) Data. <i>Remote Sensing</i> , 2018, 10, 1417.	4.0	40
10	Delamination localization in wind turbine blades based on adaptive time-of-flight analysis of noncontact laser ultrasonic signals. <i>Nondestructive Testing and Evaluation</i> , 2017, 32, 1-20.	2.1	38
11	Baseline-free damage visualization using noncontact laser nonlinear ultrasonics and state space geometrical changes. <i>Smart Materials and Structures</i> , 2015, 24, 065036.	3.5	35
12	Accelerated noncontact laser ultrasonic scanning for damage detection using combined binary search and compressed sensing. <i>Mechanical Systems and Signal Processing</i> , 2017, 92, 315-333.	8.0	32
13	Automated quantification of reinforcement dispersion in B4C/Al metal matrix composites. <i>Composites Part B: Engineering</i> , 2020, 181, 107584.	12.0	32
14	Electromagnetic wave shielding flexible films with near-zero reflection in the 5G frequency band. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4446-4455.	10.3	27
15	A Reference-Free and Non-Contact Method for Detecting and Imaging Damage in Adhesive-Bonded Structures Using Air-Coupled Ultrasonic Transducers. <i>Materials</i> , 2017, 10, 1402.	2.9	21
16	Fatigue crack detection in rotating steel shafts using noncontact ultrasonic modulation measurements. <i>Engineering Structures</i> , 2019, 196, 109293.	5.3	21
17	Sensitivity Improvement of Stretchable Strain Sensors by the Internal and External Structural Designs for Strain Redistribution. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50803-50811.	8.0	21
18	Study on effect of laser-induced ablation for Lamb waves in a thin plate. <i>Ultrasonics</i> , 2019, 91, 121-128.	3.9	17

#	ARTICLE	IF	CITATIONS
19	Mechanical and Thermal Neutron Absorbing Properties of B4C/Aluminum Alloy Composites Fabricated by Stir Casting and Hot Rolling Process. <i>Metals</i> , 2021, 11, 413.	2.3	16
20	High-throughput thermal plasma synthesis of Fe <sub>x</sub> Co <sub>1-x</sub> nano-chained particles with unusually high permeability and their electromagnetic wave absorption properties at high frequency (1~26 GHz). <i>Nanoscale</i> , 2021, 13, 12004-12016.	5.6	10
21	Mechanical Properties and Epoxy Resin Infiltration Behavior of Carbon-Nanotube-Fiber-Based Single-Fiber Composites. <i>Materials</i> , 2021, 14, 106.	2.9	10
22	Dispersion Mechanism and Mechanical Properties of SiC Reinforcement in Aluminum Matrix Composite through Stir- and Die-Casting Processes. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 952.	2.5	8
23	Feasibility of as-prepared reticulated porous barium titanate without additional radar-absorbing material coating in potential military applications. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 1481-1491.	1.9	7
24	Accelerated damage visualization using binary search with fixed pitch-catch distance laser ultrasonic scanning. <i>Smart Materials and Structures</i> , 2017, 26, 075005.	3.5	6
25	Preparation of magnetic metal and graphene hybrids with tunable morphological, structural and magnetic properties. <i>Applied Surface Science</i> , 2019, 478, 733-736.	6.1	6
26	Electromagnetic interference shielding films with enhanced absorption using double percolation of poly (methyl methacrylate) beads and CIP/MWCNT/TPU composite channel. <i>Materials Today Communications</i> , 2022, 31, 103401.	1.9	6
27	Reconstruction of laser ultrasonic wavefield images from reduced sparse measurements using compressed sensing aided super-resolution. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
28	Non-contact visualization of nonlinear ultrasonic modulation for reference-free fatigue crack detection. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
29	Laser ultrasonic imaging of a rotating blade. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
30	Detection of fatigue crack on a rotating steel shaft using air-coupled nonlinear ultrasonic modulation. , 2015, , .		1
31	Influence of intermolecular interactions on molecular geometry and physical quantities in electrolyte systems. <i>Molecular Physics</i> , 0, , 1-6.	1.7	1
32	Noncontact Nonlinear Ultrasonic Wave Modulation for Fatigue Crack and Delamination Detection. , 2019, , 661-697.		1
33	Laser-Based Structural Health Monitoring. , 2015, , 1273-1286.		1
34	Accelerated damage visualization using binary search with fixed distance laser ultrasonic scanning. , 2017, , .		0
35	Accelerated defect visualization of microelectronic systems using binary search with fixed pitch-catch distance laser ultrasonic scanning. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
36	Laser-Based Structural Health Monitoring. , 2021, , 1-14.		0