

# Seonho Cho

## List of Publications by Year in descending order

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76  
papers

1,842  
citations

257450

24  
h-index

289244

40  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1905  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isogeometric configuration design optimization of three-dimensional curved beam structures for maximal fundamental frequency. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 529-549.	3.5	1
2	Shape design optimization of dynamic crack propagation using peridynamics. <i>Engineering Fracture Mechanics</i> , 2021, 252, 107837.	4.3	4
3	Isogeometric Analysis of Electrostatic Adhesive Forces in Two-Dimensional Curved Electrodes. <i>Journal of the Computational Structural Engineering Institute of Korea</i> , 2021, 34, 199-204.	0.4	0
4	Isogeometric Analysis of Lattice Structures Having Compression-Twist Coupled Deformation. <i>Journal of the Computational Structural Engineering Institute of Korea</i> , 2021, 34, 287-292.	0.4	1
5	Isogeometric Optimal Design of Compliant Mechanisms Using Finite Deformation Curved Beam Built-Up Structures. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2020, 142, .	2.9	7
6	Shape design optimization of interdigitated electrodes for maximal electro-adhesion forces. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 1843-1855.	3.5	5
7	Diallyl disulphide-loaded spherical gold nanoparticles and acorn-like silver nanoparticles synthesised using onion extract: catalytic activity and cytotoxicity. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2020, 48, 948-960.	2.8	8
8	Atomistic simulation of agglomeration of metal nanoparticles considering the induced charge density of surface atoms. <i>International Journal of Mechanics and Materials in Design</i> , 2020, 16, 475-486.	3.0	3
9	Controllable optimal design of auxetic structures for extremal Poisson's ratio of $\hat{\nu}^2$ . <i>Composite Structures</i> , 2019, 226, 111215.	5.8	8
10	Optimal design of lattice structures for controllable extremal band gaps. <i>Scientific Reports</i> , 2019, 9, 9976.	3.3	10
11	Sesquiterpenoids from <i>Tussilago farfara</i> Flower Bud Extract for the Eco-Friendly Synthesis of Silver and Gold Nanoparticles Possessing Antibacterial and Anticancer Activities. <i>Nanomaterials</i> , 2019, 9, 819.	4.1	41
12	Fabrication of nanoribbons by dielectrophoresis assisted cold welding of gold nanoparticles on mica substrate. <i>Scientific Reports</i> , 2019, 9, 3629.	3.3	14
13	Isogeometric configuration design sensitivity analysis of geometrically exact shear-deformable beam structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 351, 153-183.	6.6	22
14	Optimal determination of force field parameters for reduced molecular dynamics model. <i>Computer Physics Communications</i> , 2019, 236, 86-94.	7.5	2
15	Isogeometric shape design optimization of nanoscale structures using continuum-based shell theory considering surface effects. <i>International Journal of Mechanical Sciences</i> , 2018, 141, 9-20.	6.7	9
16	Optimal mass distribution in carbon nanotubes for extreme thermal conductivity: Analytical manipulation of isotope effects. <i>Computational Materials Science</i> , 2018, 150, 273-282.	3.0	1
17	Isogeometric configuration design optimization of shape memory polymer curved beam structures for extremal negative Poisson's ratio. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 1861-1883.	3.5	17
18	Isogeometric design sensitivity analysis and experimental validation of nanoscale structures considering surface effects. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 435-444.	3.5	0

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19	Constrained isogeometric design optimization of lattice structures on curved surfaces: computation of design velocity field. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 17-34.	3.5	9
20	Upcycling of jellyfish ( <i>Nemopilema nomurai</i> ) sea wastes as highly valuable reducing agents for green synthesis of gold nanoparticles and their antitumor and anti-inflammatory activity. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1127-1136.	2.8	26
21	Platycodon saponins from Platycodi Radix ( <i>Platycodon grandiflorum</i> ) for the Green Synthesis of Gold and Silver Nanoparticles. <i>Nanoscale Research Letters</i> , 2018, 13, 23.	5.7	35
22	Adjoint design sensitivity analysis of constant temperature molecular dynamics. <i>International Journal of Mechanics and Materials in Design</i> , 2017, 13, 243-252.	3.0	4
23	Isogeometric topological shape optimization using dual evolution with boundary integral equation and level sets. <i>CAD Computer Aided Design</i> , 2017, 82, 88-99.	2.7	14
24	Porous Structures with Negative Poisson's Ratio using Pattern Transformation Triggered by Deformation. <i>Journal of the Computational Structural Engineering Institute of Korea</i> , 2017, 30, 275-282.	0.4	1
25	Isogeometric shape design sensitivity analysis of elasticity problems using boundary integral equations. <i>Engineering Analysis With Boundary Elements</i> , 2016, 66, 119-128.	3.7	20
26	Concentration Effect of Reducing Agents on Green Synthesis of Gold Nanoparticles: Size, Morphology, and Growth Mechanism. <i>Nanoscale Research Letters</i> , 2016, 11, 230.	5.7	76
27	Cold welding of gold nanoparticles on mica substrate: Self-adjustment and enhanced diffusion. <i>Scientific Reports</i> , 2016, 6, 32951.	3.3	20
28	Green synthesis of gold and silver nanoparticles using gallic acid: catalytic activity and conversion yield toward the 4-nitrophenol reduction reaction. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	64
29	Isogeometric configuration design sensitivity analysis of finite deformation curved beam structures using Jaumann strain formulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 309, 41-73.	6.6	12
30	Tannic acid-mediated green synthesis of antibacterial silver nanoparticles. <i>Archives of Pharmacal Research</i> , 2016, 39, 465-473.	6.3	66
31	Isogeometric Shape Optimization of Ferromagnetic Materials in Magnetic Actuators. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-8.	2.1	12
32	Antibacterial nanocarriers of resveratrol with gold and silver nanoparticles. <i>Materials Science and Engineering C</i> , 2016, 58, 1160-1169.	7.3	80
33	Adjoint shape design sensitivity analysis of molecular dynamics for lattice structures using GLE impedance forces. <i>International Journal of Mechanics and Materials in Design</i> , 2016, 12, 317-335.	3.0	1
34	Sampling-Based RBDO of Ship Hull Structures Considering Thermo-Elasto-Plastic Residual Deformation. <i>Mechanics Based Design of Structures and Machines</i> , 2015, 43, 183-208.	4.7	14
35	Green synthesis of gold nanoparticles using chlorogenic acid and their enhanced performance for inflammation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1677-1688.	3.3	76
36	A mesh regularization scheme to update internal control points for isogeometric shape design optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 285, 694-713.	6.6	14

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37	Isogeometric configuration design optimization of built-up structures. <i>Structural and Multidisciplinary Optimization</i> , 2015, 51, 319-331.	3.5	4
38	Silver Nanoparticles Synthesized Using <i>Caesalpinia sappan</i> Extract as Potential Novel Nanoantibiotics Against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 5543-5552.	0.9	24
39	Isogeometric configuration design optimization of heat conduction problems using boundary integral equation. <i>International Journal of Heat and Mass Transfer</i> , 2015, 89, 937-949.	4.8	17
40	Isogeometric analysis of stress intensity factors for curved crack problems. <i>Theoretical and Applied Fracture Mechanics</i> , 2015, 75, 89-103.	4.7	11
41	Adjoint design sensitivity analysis of dynamic crack propagation using peridynamic theory. <i>Structural and Multidisciplinary Optimization</i> , 2015, 51, 585-598.	3.5	9
42	Reliability-based design optimization of fluid–solid interaction problems. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 1724-1742.	2.1	5
43	Isogeometric shape design sensitivity analysis of stress intensity factors for curved crack problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 279, 469-496.	6.6	12
44	Adjoint design sensitivity analysis of molecular dynamics in parallel computing environment. <i>International Journal of Mechanics and Materials in Design</i> , 2014, 10, 379-394.	3.0	7
45	Adjoint shape design sensitivity analysis of fluid–solid interactions using concurrent mesh velocity in ALE formulation. <i>Finite Elements in Analysis and Design</i> , 2014, 85, 20-32.	3.2	7
46	A level set-based shape optimization method for periodic sound barriers composed of elastic scatterers. <i>Journal of Sound and Vibration</i> , 2013, 332, 5283-5301.	3.9	7
47	Isogeometric Shape Design Optimization of Geometrically Nonlinear Structures#. <i>Mechanics Based Design of Structures and Machines</i> , 2013, 41, 337-358.	4.7	10
48	Isogeometric shape design optimization of heat conduction problems. <i>International Journal of Heat and Mass Transfer</i> , 2013, 62, 272-285.	4.8	35
49	Adjoint design sensitivity analysis of reduced atomic systems using generalized Langevin equation for lattice structures. <i>Journal of Computational Physics</i> , 2013, 240, 1-19.	3.8	8
50	Isogeometric shape design sensitivity analysis using transformed basis functions for Kronecker delta property. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 253, 505-516.	6.6	23
51	Wound healing and antibacterial activities of chondroitin sulfate- and acharan sulfate-reduced silver nanoparticles. <i>Nanotechnology</i> , 2013, 24, 395102.	2.6	48
52	A surface evolution scheme to identify nanoscale intrinsic geometry from AFM experimental data. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	1
53	Melamine Nanosensing with Chondroitin Sulfate-Reduced Gold Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 8229-8238.	0.9	9
54	Antibacterial Activity and Increased Freeze-Drying Stability of Sialyllactose-Reduced Silver Nanoparticles Using Sucrose and Trehalose. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 3884-3895.	0.9	16

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55	<i>Artemisia capillaris</i> Extracts as a Green Factory for the Synthesis of Silver Nanoparticles with Antibacterial Activities. Journal of Nanoscience and Nanotechnology, 2012, 12, 7087-7095.	0.9	37
56	Level Set Based Topological Shape Optimization of Hyper-elastic Nonlinear Structures using Topological Derivatives. Journal of the Computational Structural Engineering Institute of Korea, 2012, 25, 559-567.	0.4	3
57	Shape design optimization of SPH fluid-structure interactions considering geometrically exact interfaces. Structural and Multidisciplinary Optimization, 2011, 44, 319-336.	3.5	7
58	Efficient design sensitivity analysis of incompressible fluids using SPH projection method. Structural and Multidisciplinary Optimization, 2010, 40, 307-318.	3.5	4
59	Numerical method for shape optimization using T-spline based isogeometric method. Structural and Multidisciplinary Optimization, 2010, 42, 417-428.	3.5	54
60	Level Set-Based Topological Shape Optimization of Heat Conduction Problems Considering Design-Dependent Convection Boundary. Numerical Heat Transfer, Part B: Fundamentals, 2010, 58, 304-322.	0.9	26
61	Level Set-Based Topological Shape Optimization of Nonlinear Heat Conduction Problems Using Topological Derivatives. Mechanics Based Design of Structures and Machines, 2009, 37, 550-582.	4.7	21
62	Isogeometric shape design optimization: exact geometry and enhanced sensitivity. Structural and Multidisciplinary Optimization, 2009, 38, 53-70.	3.5	156
63	Level set based topological shape optimization of geometrically nonlinear structures using unstructured mesh. Computers and Structures, 2008, 86, 1447-1455.	4.4	70
64	Level Set-based Topological Shape Optimization of Nonlinear Heat Conduction Problems. Numerical Heat Transfer, Part B: Fundamentals, 2008, 54, 454-475.	0.9	14
65	Topological shape optimization of power flow problems at high frequencies using level set approach. International Journal of Solids and Structures, 2006, 43, 172-192.	2.7	12
66	Topology design optimization of geometrically non-linear structures using meshfree method. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 5909-5925.	6.6	59
67	Design sensitivity analysis and topology optimization of eigenvalue problems for piezoelectric resonators. Smart Materials and Structures, 2006, 15, 1513-1524.	3.5	25
68	Efficient topology optimization of thermo-elasticity problems using coupled field adjoint sensitivity analysis method. Finite Elements in Analysis and Design, 2005, 41, 1481-1495.	3.2	50
69	Topological shape optimization of geometrically nonlinear structures using level set method. Computers and Structures, 2005, 83, 2257-2268.	4.4	35
70	Topological Shape Optimization of Heat Conduction Problems using Level Set Approach. Numerical Heat Transfer, Part B: Fundamentals, 2005, 48, 67-88.	0.9	54
71	Reliability-based topology optimization of geometrically nonlinear structures with loading and material uncertainties. Finite Elements in Analysis and Design, 2004, 41, 311-331.	3.2	130
72	Design sensitivity analysis and topology optimization of displacement-loaded non-linear structures. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 2539-2553.	6.6	67

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73	Design sensitivity analysis and optimization of non-linear transient dynamics. Part I?sizing design. International Journal for Numerical Methods in Engineering, 2000, 48, 351-373.	2.8	30
74	Design sensitivity analysis and optimization of non-linear transient dynamics. Part II?configuration design. International Journal for Numerical Methods in Engineering, 2000, 48, 375-399.	2.8	17
75	Configuration and sizing design optimisation of powertrain mounting systems. International Journal of Vehicle Design, 2000, 24, 34.	0.3	20
76	Design sensitivity analysis and optimization of non-linear transient dynamics. Part I? sizing design. , 2000, 48, 351.		1