

# Hideki Nagai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8269380/publications.pdf>

Version: 2024-02-01

36  
papers

407  
citations

933447

10  
h-index

839539

18  
g-index

36  
all docs

36  
docs citations

36  
times ranked

399  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photochemically Reversible Liquefaction and Solidification of Multiazobenzene Sugar-Alcohol Derivatives and Application to Reworkable Adhesives. ACS Applied Materials & Interfaces, 2014, 6, 7933-7941.	8.0	121
2	Shape memory alloys as strain sensors in composites. Smart Materials and Structures, 2006, 15, 493-498.	3.5	41
3	Photoinduced Phase Transitions in Rod-shaped Azobenzene with Different Alkyl Chain Length. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 149-157.	0.3	39
4	A new method for fabricating SMA/CFRP smart hybrid composites. Intermetallics, 2002, 10, 361-369.	3.9	35
5	Strain sensors of shape memory alloys using acoustic emissions. Sensors and Actuators A: Physical, 2005, 122, 39-44.	4.1	30
6	A novel technique for fabricating SMA/CFRP adaptive composites using ultrathin TiNi wires. Smart Materials and Structures, 2004, 13, 196-202.	3.5	23
7	Synthesis of 10- $\mu$ m-Thick Lead Zirconate Titanate Films on 2-in. Si Substrates for Piezoelectric Film Devices. International Journal of Applied Ceramic Technology, 2006, 3, 442-447.	2.1	22
8	Additive nature of recovery strains in heavily cold-worked shape memory alloys. Scripta Materialia, 2003, 48, 803-808.	5.2	21
9	A SMA/CFRP hybrid composite with damage suppression effect at ambient temperature. Scripta Materialia, 2003, 49, 587-593.	5.2	21
10	Photochemical Liquid-Solid Transitions in Multi-dye Compounds. Molecular Crystals and Liquid Crystals, 2014, 604, 64-70.	0.9	18
11	Life Cycle Assessment and Long Term CO <sub>2</sub> Reduction Estimation of Ultra Lightweight Vehicles Using CFRP. Key Engineering Materials, 2003, 243-244, 45-50.	0.4	9
12	FEM analysis of flexural modulus of carbon fiber monofilament considering anisotropy. Advanced Composite Materials, 2022, 31, 137-150.	1.9	6
13	<title>Thermomechanical characterization and development of SMA-embedded CFRP composites with self-damage control</title>. , 2002, 4699, 182.		5
14	<title>Fabrication of TiNi/CFRP smart composite using cold drawn TiNi wires</title>. , 2002, , .		3
15	<title>Smart composite material system with sensor, actuator, and processor functions: a model of holding and releasing a ball</title>. , 2002, , .		3
16	A New Method for Fabricating SMA Smart Polymer Matrix Composites. Advanced Engineering Materials, 2002, 4, 683-686.	3.5	3
17	Flaw Inspection of CFRP with a Contact-free Visualization System of Ultrasound Wave Propagations Using Laser Generation and Air-coupled Receiver. Journal of the Japan Society for Composite Materials, 2012, 38, 183-192.	0.2	2
18	Automatic Adaptive Mesh Refinement Using Arbitrarily Distributed Random Numbers.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 1994, 60, 2658-2663.	0.2	1

#	ARTICLE	IF	CITATIONS
19	Inventory analysis in production and recycling process of advanced composite materials.. Journal of Advanced Science, 2001, 13, 125-128.	0.1	1
20	Fabrication technique of SMA/CFRP smart composites. , 2003, 4946, 35.		1
21	Using photons for non-destructive testing of thick materials: a simulation study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 535, 706-715.	1.6	1
22	Using photons for non-destructive testing of thick materials: a simulation study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 535, 706-715.	1.6	1
23	Development and applications of TiNi-based smart structure. , 2002, , .		0
24	Shape memory characteristics of cold drawn Ti-Ni wires. European Physical Journal Special Topics, 2003, 112, 761-764.	0.2	0
25	Simulation study of non-destructive testing method for thick materials using positrons from muon decays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 550, 490-498.	1.6	0
26	Evaluation of Mechanical Property of Three Dimensional Multi-phase Polymer Using the Homogenization Method. The Proceedings of the JSME Annual Meeting, 2000, 2000.2, 49-50.	0.0	0
27	Characterization of Two phase polymers. The Proceedings of the Computational Mechanics Conference, 2000, 2000.13, 483-484.	0.0	0
28	Developments and Applications of TiNi Alloy Based Smart Structures. Proceedings of the 1992 Annual Meeting of JSME/MMD, 2002, 2002, 325-326.	0.0	0
29	Life Cycle Assessment of CFRP Production and Recycling. The Proceedings of the JSME Annual Meeting, 2002, 2002.2, 283-284.	0.0	0
30	OS9(8)-36(OS09W0264) SMA Strain Sensor for TiNi-Based Smart Composites. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2003, 2003, 357.	0.0	0
31	Analysis of Reversible Shape Changing Smart Structure using Shape Memory Alloys. The Proceedings of the Materials and Processing Conference, 2003, 2003.11, 65-66.	0.0	0
32	Application of Reversible Shape Changing Smart Structure using Shape Memory Alloys. The Proceedings of the JSME Annual Meeting, 2004, 2004.6, 81-82.	0.0	0
33	529 Preparation of Thin Film Type Directional Lamb-wave Sensors. The Proceedings of the Materials and Processing Conference, 2007, 2007.15, 369-370.	0.0	0
34	Bearing Failure Monitoring of C/C Composites with an Attached Optical Fiber.. Journal of the Japan Society for Composite Materials, 1997, 23, 100-107.	0.2	0
35	Observation on Bearing Damage Propagation of Plain Weave C/C Composites.. Journal of the Japan Society for Composite Materials, 1998, 24, 137-143.	0.2	0
36	Application of Michelson Interferometric Fiber-Optic Sensors to CFRP Damage Monitoring.. Journal of the Japan Society for Composite Materials, 1998, 24, 96-105.	0.2	0