

Keiji Enpuku

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8839340/publications.pdf>

Version: 2024-02-01

60
papers

779
citations

567281

15
h-index

580821

25
g-index

60
all docs

60
docs citations

60
times ranked

518
citing authors

#	ARTICLE	IF	CITATIONS
1	Dependence of hysteresis loss of immobilized magnetic nanoparticles on the easy-axis angle: Effect of easy-axis alignment. AIP Advances, 2022, 12, .	1.3	4
2	Determination of the effective anisotropy constant of magnetic nanoparticles – Comparison between two approaches. Journal of Magnetism and Magnetic Materials, 2021, 519, 167402.	2.3	10
3	AC Magnetization of Immobilized Magnetic Nanoparticles With Different Degrees of Parallel Alignment of Easy Axes. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	9
4	Effect of easy axis alignment on dynamic magnetization of immobilized and suspended magnetic nanoparticles. Journal of Applied Physics, 2021, 129, .	2.5	18
5	Difference in AC magnetization between suspended and immobilized magnetic nanoparticles in Néel-relaxation dominant case: Effect of easy axis alignment in suspended nanoparticles. Journal of Applied Physics, 2021, 130, .	2.5	12
6	Evaluation of effective magnetic anisotropy constant of magnetic nanoparticles from coercive field of AC magnetization curve. Journal of Applied Physics, 2021, 130, .	2.5	6
7	Expression for hysteresis loss of immobilized magnetic nanoparticles in a wide range of particle parameters and excitation conditions: Parameter optimization for hyperthermia application. AIP Advances, 2021, 11, .	1.3	8
8	Effect of core size distribution on magnetic nanoparticle harmonics for thermometry. Japanese Journal of Applied Physics, 2020, 59, 010904.	1.5	6
9	Rectangular wave eddy current testing using for imaging of backside defects of steel plates. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 255-262.	0.6	5
10	Properties of magnetometer utilizing high-Tc superconducting coil and inductance modulation scheme. Journal of Magnetism and Magnetic Materials, 2020, 502, 166525.	2.3	0
11	Estimation of the effective magnetic anisotropy constant of multi-core based magnetic nanoparticles from the temperature dependence of the coercive field. Journal of Applied Physics, 2020, 127, .	2.5	13
12	Amplitude and phase of higher harmonic of magnetic nanoparticles' magnetization under low frequency magnetic field. Journal of Magnetism and Magnetic Materials, 2020, 508, 166886.	2.3	0
13	Effect of viscosity on harmonics signals of magnetic nanoparticles for thermometry application. Journal of Magnetism and Magnetic Materials, 2019, 491, 165480.	2.3	8
14	Empirical expression for harmonics of AC magnetization of magnetic nanoparticles with core size distribution. Japanese Journal of Applied Physics, 2019, 58, 097003.	1.5	3
15	Magnetometer Using Inductance Modulation of High-Critical-Temperature Superconducting Coil for Low-Frequency Field Measurement in Presence of Excitation Fields. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	1
16	Three-dimensional detection of magnetic nanoparticles using a field-free line with weak field gradient and multiple pickup coils. Japanese Journal of Applied Physics, 2019, 58, 061001.	1.5	4
17	Optimal Frequency of Low-Frequency Eddy-Current Testing for Detecting Defects on the Backside of Thick Steel Plates. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	17
18	Magnetic parameters evaluation of magnetic nanoparticles for use in biomedical applications. Journal of Magnetism and Magnetic Materials, 2019, 474, 522-527.	2.3	30

#	ARTICLE	IF	CITATIONS
19	Effects of size and anisotropy of magnetic nanoparticles associated with dynamics of easy axis for magnetic particle imaging. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 311-318.	2.3	29
20	Effect of viscosity on the AC magnetization of magnetic nanoparticles under different AC excitation fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 471, 334-339.	2.3	13
21	Three-dimensional imaging of magnetic nanoparticles using multiple pickup coils and field-free line. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 023002.	1.5	4
22	Empirical expression for DC magnetization curve of immobilized magnetic nanoparticles for use in biomedical applications. <i>AIP Advances</i> , 2018, 8, 056803.	1.3	10
23	Detection of Slit Defects on Backside of Steel Plate Using Low-Frequency Eddy-Current Testing. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	15
24	Improving Tip Position-Estimation Performance of Gastric Tube by Compensating Geomagnetic Field With Offset Coils. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	2.1	1
25	Low-noise magnetometer based on inductance modulation in high-critical-temperature superconductor coil. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 060314.	1.5	2
26	A Gastric Tube Monitoring System for Clinical Applications. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-4.	2.1	2
27	Magnetic Core-Size Distribution of Magnetic Nanoparticles Estimated From Magnetization, AC Susceptibility, and Relaxation Measurements. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	2.1	9
28	Biosensing utilizing magnetic markers and superconducting quantum interference devices. <i>Superconductor Science and Technology</i> , 2017, 30, 053002.	3.5	37
29	Eddy Current Testing System Using HTS-SQUID With External Pickup Coil Made of HTS Wire. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.7	13
30	Three-dimensional magnetic nanoparticle imaging using small field gradient and multiple pickup coils. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 427, 144-150.	2.3	17
31	Effect of alignment of easy axes on dynamic magnetization of immobilized magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 427, 162-167.	2.3	45
32	Magnetometer exploiting inductance modulation in coils made of high-critical-temperature superconductor. <i>Applied Physics Express</i> , 2017, 10, 113101.	2.4	4
33	Improved Liquid-Phase Detection of Biological Targets Based on Magnetic Markers and High-Critical-Temperature Superconducting Quantum Interference Device. <i>IEICE Transactions on Electronics</i> , 2016, E99.C, 669-675.	0.6	6
34	Thickness Measurement of an Iron Plate Using Low-Frequency Eddy Current Testing With an HTS Coil. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-5.	1.7	16
35	Measurement of Iron-Plate Thickness Using HTS Coil. , 2015, , .		1
36	Narrow-Band Magnetic Nanoparticle Imaging using Orthogonal Gradient Field. <i>Journal of the Magnetics Society of Japan</i> , 2015, 39, 216-219.	0.9	2

#	ARTICLE	IF	CITATIONS
37	Hysteresis Loss of Fractionated Magnetic Nanoparticles for Hyperthermia Application. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	12
38	Effect of viscosity on harmonic signals from magnetic fluid. Journal of Magnetism and Magnetic Materials, 2015, 380, 105-110.	2.3	42
39	Application of Minimum Variance Beamformer for Estimation of Tip Position of a Nasogastric Tube. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	7
40	Liquid-Phase Detection of Biological Targets Using Magnetoresistive Sensor and Magnetic Markers. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
41	The effect of Neel relaxation on the properties of the third harmonic signal of magnetic nanoparticles for use in narrow-band magnetic nanoparticle imaging. Japanese Journal of Applied Physics, 2014, 53, 103002.	1.5	11
42	Magnetic Particle Imaging Utilizing Orthogonal Gradient Field and Third-Harmonic Signal Detection. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6
43	Highly Sensitive Magnetic Nanoparticle Imaging Using Cooled-Cu/HTS-Superconductor Pickup Coils. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	11
44	Highly Sensitive Liquid-Phase Detection of Biological Targets With Magnetic Markers and High T_c SQUID. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.7	17
45	Characterization of Magnetic Markers for Liquid-Phase Detection of Biological Targets. IEEE Transactions on Magnetics, 2013, 49, 3456-3459.	2.1	11
46	Magnetic Nanoparticle Imaging Using Harmonic Signals. IEEE Transactions on Magnetics, 2012, 48, 3776-3779.	2.1	22
47	Characterization of Magnetic Markers and Sensors for Liquid-Phase Immunoassays Using Brownian Relaxation. IEEE Transactions on Magnetics, 2012, 48, 2838-2841.	2.1	12
48	Homogeneous Bioassays Based on the Manipulation of Magnetic Nanoparticles by Rotating and Alternating Magnetic Fields—A Comparison. IEEE Transactions on Magnetics, 2012, 48, 3792-3795.	2.1	27
49	Performance of HTS SQUID using resonant coupling of cooled Cu pickup coil. Physica C: Superconductivity and Its Applications, 2011, 471, 1234-1237.	1.2	6
50	Liquid-Phase Immunoassays Using Brownian Relaxation of Magnetic Markers. IEEE Transactions on Magnetics, 2011, 47, 2867-2870.	2.1	7
51	Detection of Magnetic Nanoparticles Using the Second-Harmonic Signal. IEEE Transactions on Magnetics, 2011, 47, 2863-2866.	2.1	25
52	AC susceptibility of magnetic markers in suspension for liquid phase immunoassay. Journal of Magnetism and Magnetic Materials, 2009, 321, 1621-1624.	2.3	9
53	Simulation and Quantitative Clarification of AC Susceptibility of Magnetic Fluid in Nonlinear Brownian Relaxation Region. Japanese Journal of Applied Physics, 2009, 48, 127002.	1.5	107
54	Magnetometer utilizing SQUID pico-voltmeter and cooled normal pickup coil. Physica C: Superconductivity and Its Applications, 2005, 426-431, 1596-1600.	1.2	1

#	ARTICLE	IF	CITATIONS
55	Detection of magnetic nanoparticles with ac susceptibility measurement. Physica C: Superconductivity and Its Applications, 2004, 412-414, 1496-1500.	1.2	15
56	SQUID magnetometer utilizing normal pickup coil and resonant-type coupling circuit. Physica C: Superconductivity and Its Applications, 2003, 392-396, 1396-1400.	1.2	14
57	High Tc Superconducting Quantum Interference Device Magnetometer Utilizing Cooled Copper Pickup Coil and Resonant Coupling Circuit. Japanese Journal of Applied Physics, 2002, 41, L1221-L1223.	1.5	11
58	Superconducting Electronics. SQUID Application. Development of SQUID Technology and System Application.. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 1996, 31, 586-593.	0.1	0
59	Effect of Flux Creep on Current-Voltage Characteristics of Superconducting Y-Ba-Cu-O Thin Films. Japanese Journal of Applied Physics, 1989, 28, L991-L993.	1.5	24
60	Flux-Trapping Characteristics of Pb-alloy Superconducting Thin Films for Josephson Tunnel Junctions. Shinku/Journal of the Vacuum Society of Japan, 1984, 27, 667-677.	0.2	0