

Mladen Barbic

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7904406/publications.pdf>

Version: 2024-02-01

39
papers

4,599
citations

430874

18
h-index

377865

34
g-index

41
all docs

41
docs citations

41
times ranked

7073
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifield and inverse-contrast switching of magnetocaloric high contrast ratio MRI labels. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 506-517.	3.0	5
2	Modeling of magnetization dynamics and thermal magnetic moment fluctuations in nanoparticle-enhanced magnetic resonance detection. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	2
3	Parametric amplification of reversible transverse susceptibility in single domain magnetic nanoparticles. <i>AIP Advances</i> , 2019, 9, 045031.	1.3	2
4	Multimodal in vivo brain electrophysiology with integrated glass microelectrodes. <i>Nature Biomedical Engineering</i> , 2019, 3, 741-753.	22.5	40
5	Magnetocaloric materials as switchable high contrast ratio MRI labels. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2238-2246.	3.0	9
6	Possible magneto-mechanical and magneto-thermal mechanisms of ion channel activation in magnetogenetics. <i>ELife</i> , 2019, 8, .	6.0	39
7	Evaluating the potential of using quantum dots for monitoring electrical signals in neurons. <i>Nature Nanotechnology</i> , 2018, 13, 278-288.	31.5	96
8	Sensitive enhancement of vessel wall imaging with an endoesophageal Wireless Amplified NMR Detector (WAND). <i>Magnetic Resonance in Medicine</i> , 2017, 78, 2048-2054.	3.0	9
9	Detachable glass microelectrodes for recording action potentials in active moving organs. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H1248-H1259.	3.2	13
10	Fully integrated silicon probes for high-density recording of neural activity. <i>Nature</i> , 2017, 551, 232-236.	27.8	1,531
11	Effect of magnetic nanoparticle shape on flux amplification in inductive coil magnetic resonance detection. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	4
12	Visualization and neuronal cell targeting during electrophysiological recordings facilitated by quantum dots. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
13	Quantum dot-based multiphoton fluorescent pipettes for targeted neuronal electrophysiology. <i>Nature Methods</i> , 2014, 11, 1237-1241.	19.0	70
14	Multi-array silicon probes with integrated optical fibers: light-assisted perturbation and recording of local neural circuits in the behaving animal. <i>European Journal of Neuroscience</i> , 2010, 31, 2279-2291.	2.6	222
15	Stripe Sensor Tomography and application to microcoil Magnetic Resonance Imaging. , 2009, , .		2
16	Planar self-biased magnetic resonance microscopy - Concepts in Magnetic Resonance Part B, 2008, 33B, 21-31.	0.7	1
17	Stripe sensor tomography. <i>Review of Scientific Instruments</i> , 2008, 79, 033705.	1.3	1
18	Femto-Newton force sensitivity quartz tuning fork sensor. <i>Sensors and Actuators A: Physical</i> , 2007, 136, 564-566.	4.1	33

#	ARTICLE	IF	CITATIONS
19	Stray field magnetic resonance tomography using ferromagnetic spheres. Journal of Magnetic Resonance, 2006, 181, 223-228.	2.1	6
20	Magnetic nanostructures as amplifiers of transverse fields in magnetic resonance. Solid State Nuclear Magnetic Resonance, 2005, 28, 91-105.	2.3	20
21	Composite Nanowire-Based Probes for Magnetic Resonance Force Microscopy. Nano Letters, 2005, 5, 187-190.	9.1	17
22	Nanomagnetic Planar Magnetic Resonance Microscopy "Lens". Nano Letters, 2005, 5, 787-792.	9.1	4
23	Two-dimensional magnetic resonance tomographic microscopy using ferromagnetic probes. Journal of Applied Physics, 2004, 95, 3598-3606.	2.5	6
24	Sensitive measurement of reversible parallel and transverse susceptibility by alternating gradient magnetometry. Review of Scientific Instruments, 2004, 75, 5016-5021.	1.3	12
25	Nanowire-based very-high-frequency electromechanical resonator. Applied Physics Letters, 2003, 83, 1240-1242.	3.3	307
26	Spectroscopic studies of individual plasmon resonant nanoparticles. , 2003, 5221, 66.		2
27	Magnetic resonance diffraction using the magnetic field from a ferromagnetic sphere. Journal of Applied Physics, 2002, 91, 9987.	2.5	12
28	Sample-detector coupling in atomic resolution magnetic resonance diffraction. Journal of Applied Physics, 2002, 92, 7345-7354.	2.5	8
29	Shape effects in plasmon resonance of individual colloidal silver nanoparticles. Journal of Chemical Physics, 2002, 116, 6755-6759.	3.0	1,599
30	Single crystal silver nanowires prepared by the metal amplification method. Journal of Applied Physics, 2002, 91, 9341-9345.	2.5	119
31	Magnetic wires in MEMS and bio-medical applications. Journal of Magnetism and Magnetic Materials, 2002, 249, 357-367.	2.3	43
32	Scanning probe electromagnetic tweezers. Applied Physics Letters, 2001, 79, 1897-1899.	3.3	45
33	Electromagnetic micromotor for microfluidics applications. Applied Physics Letters, 2001, 79, 1399-1401.	3.3	85
34	Perpendicular patterned media in an (Al _{0.9} Ga _{0.1}) ₂ O ₃ /GaAs substrate for magnetic storage. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 3190.	1.6	10
35	Fabrication and characterization of high aspect ratio perpendicular patterned information storage media in an Al ₂ O ₃ /GaAs substrate. Journal of Applied Physics, 1999, 85, 5489-5491.	2.5	27
36	Writing and reading of single magnetic domain per bit perpendicular patterned media. Applied Physics Letters, 1999, 74, 2516-2518.	3.3	122

#	ARTICLE	IF	CITATIONS
37	Miniature high-sensitivity quartz tuning fork alternating gradient magnetometry. Applied Physics Letters, 1998, 73, 3595-3597.	3.3	32
38	Magnetic force microscopy using nonoptical piezoelectric quartz tuning fork detection design with applications to magnetic recording studies. Journal of Applied Physics, 1998, 83, 6229-6231.	2.5	44
39	Magnetic Resonance Force Microscopy. , 0, , 49-63.		0