

Robert Ivkov

List of Publications by Year in descending order

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77
papers

4,631
citations

109264

35
h-index

98753

67
g-index

79
all docs

79
docs citations

79
times ranked

5269
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical magnetic hyperthermia requires integrated magnetic particle imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2022, 14, e1779.	3.3	34
2	Bionized Nanoferrite Particles Alter the Course of Experimental <i>Cryptococcus neoformans</i> Pneumonia. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, e0239921.	1.4	1
3	Validation of a coupled electromagnetic and thermal model for estimating temperatures during magnetic nanoparticle hyperthermia. <i>International Journal of Hyperthermia</i> , 2021, 38, 611-622.	1.1	12
4	Nanoparticle interactions with immune cells dominate tumor retention and induce T cell-mediated tumor suppression in models of breast cancer. <i>Science Advances</i> , 2020, 6, eaay1601.	4.7	107
5	Heating technology for malignant tumors: a review. <i>International Journal of Hyperthermia</i> , 2020, 37, 711-741.	1.1	211
6	Cancer therapy with iron oxide nanoparticles: Agents of thermal and immune therapies. <i>Advanced Drug Delivery Reviews</i> , 2020, 163-164, 65-83.	6.6	214
7	Design and construction of a Maxwell-type induction coil for magnetic nanoparticle hyperthermia. <i>International Journal of Hyperthermia</i> , 2020, 37, 1-14.	1.1	18
8	For HIPEC, synergistic effects of hyperthermia and doxorubicin are optimal when simultaneously combined. <i>International Journal of Hyperthermia</i> , 2020, 37, 346-348.	1.1	0
9	Systemically delivered antibody-labeled magnetic iron oxide nanoparticles are less toxic than plain nanoparticles when activated by alternating magnetic fields. <i>International Journal of Hyperthermia</i> , 2020, 37, 59-75.	1.1	4
10	Magnetic nanoparticle hyperthermia for treating locally advanced unresectable and borderline resectable pancreatic cancers: the role of tumor size and eddy-current heating. <i>International Journal of Hyperthermia</i> , 2020, 37, 108-119.	1.1	27
11	Magnet-assisted Flow Cytometry of in vivo Tumors to Quantitate Cell-specific Responses to Magnetic Iron Oxide Nanoparticles. <i>Bio-protocol</i> , 2020, 10, e3822.	0.2	1
12	The impact of data selection and fitting on SAR estimation for magnetic nanoparticle heating. <i>International Journal of Hyperthermia</i> , 2020, 37, 100-107.	1.1	13
13	Increased uptake of doxorubicin by cells undergoing heat stress does not explain its synergistic cytotoxicity with hyperthermia. <i>International Journal of Hyperthermia</i> , 2019, 36, 711-719.	1.1	20
14	Bubble Magnetometry of Nanoparticle Heterogeneity and Interaction. <i>Physical Review Applied</i> , 2019, 11, .	1.5	1
15	Enhancing the abscopal effect of radiation and immune checkpoint inhibitor therapies with magnetic nanoparticle hyperthermia in a model of metastatic breast cancer. <i>International Journal of Hyperthermia</i> , 2019, 36, 47-63.	1.1	35
16	Temperature-controlled power modulation compensates for heterogeneous nanoparticle distributions: a computational optimization analysis for magnetic hyperthermia. <i>International Journal of Hyperthermia</i> , 2019, 36, 115-129.	1.1	36
17	Physical characterization and in vivo organ distribution of coated iron oxide nanoparticles. <i>Scientific Reports</i> , 2018, 8, 4916.	1.6	50
18	Magnetic hyperthermia therapy for the treatment of glioblastoma: a review of the therapy's history, efficacy and application in humans. <i>International Journal of Hyperthermia</i> , 2018, 34, 1316-1328.	1.1	260

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19	Low-Dose CT Perfusion of the Liver Using Reconstruction of Difference. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 205-214.	2.7	9
20	An optimised spectrophotometric assay for convenient and accurate quantitation of intracellular iron from iron oxide nanoparticles. International Journal of Hyperthermia, 2018, 34, 373-381.	1.1	38
21	EXTH-69. MAGNETIC HYPERTHERMIA THERAPY OF EXPERIMENTAL GLIOBLASTOMA IN COMBINATION WITH CHEMORADIATION. Neuro-Oncology, 2018, 20, vi99-vi100.	0.6	0
22	Nanoparticle architecture preserves magnetic properties during coating to enable robust multi-modal functionality. Scientific Reports, 2018, 8, 12706.	1.6	18
23	ROS-induced HepG2 cell death from hyperthermia using magnetic hydroxyapatite nanoparticles. Nanotechnology, 2018, 29, 375101.	1.3	24
24	Computational Histopathological Analysis of Nanoparticle Distribution in Breast Cancer Models. FASEB Journal, 2018, 32, lb558.	0.2	0
25	Experimental estimation and analysis of variance of the measured loss power of magnetic nanoparticles. Scientific Reports, 2017, 7, 6661.	1.6	64
26	Image-guided thermal therapy with a dual-contrast magnetic nanoparticle formulation: A feasibility study. International Journal of Hyperthermia, 2016, 32, 543-557.	1.1	20
27	Enhanced magnetic properties and MRI performance of bi-magnetic core-shell nanoparticles. RSC Advances, 2016, 6, 77558-77568.	1.7	30
28	Internal Magnetic Structure of Nanoparticles Dominates Time-Dependent Relaxation Processes in a Magnetic Field. Advanced Functional Materials, 2015, 25, 4300-4311.	7.8	100
29	Evaluation of a PSMA-targeted BNF nanoparticle construct. Nanoscale, 2015, 7, 4432-4442.	2.8	35
30	Magnetic nanoparticle hyperthermia enhances radiation therapy: A study in mouse models of human prostate cancer. International Journal of Hyperthermia, 2015, 31, 359-374.	1.1	106
31	Pathways to chromothripsis. Cell Cycle, 2015, 14, 2886-2890.	1.3	10
32	Computational evaluation of amplitude modulation for enhanced magnetic nanoparticle hyperthermia. Biomedizinische Technik, 2015, 60, 491-504.	0.9	19
33	Monitoring nanoparticle-mediated cellular hyperthermia with a high-sensitivity biosensor. Nanomedicine, 2014, 9, 2729-2743.	1.7	15
34	Magnetic resonance imaging contrast of iron oxide nanoparticles developed for hyperthermia is dominated by iron content. International Journal of Hyperthermia, 2014, 30, 192-200.	1.1	69
35	Characterization of intratumor magnetic nanoparticle distribution and heating in a rat model of metastatic spine disease. Journal of Neurosurgery: Spine, 2014, 20, 740-750.	0.9	27
36	Development and Screening of a Series of Antibody-Conjugated and Silica-Coated Iron Oxide Nanoparticles for Targeting the Prostate-Specific Membrane Antigen. ChemMedChem, 2014, 9, 1356-1360.	1.6	25

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37	Calibration of a Quasi-Adiabatic Magneto-Thermal Calorimeter Used to Characterize Magnetic Nanoparticle Heating. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2013, 4, .	0.8	15
38	New iron-oxide particles for magnetic nanoparticle hyperthermia: an <i>in-vitro</i> and <i>in-vivo</i> pilot study. <i>Proceedings of SPIE</i> , 2013, , .	0.8	11
39	Physics of heat generation using magnetic nanoparticles for hyperthermia. <i>International Journal of Hyperthermia</i> , 2013, 29, 715-729.	1.1	279
40	Effect of magnetic dipolar interactions on nanoparticle heating efficiency: Implications for cancer hyperthermia. <i>Scientific Reports</i> , 2013, 3, 2887.	1.6	309
41	Magnetic nanoparticle hyperthermia: A new frontier in biology and medicine?. <i>International Journal of Hyperthermia</i> , 2013, 29, 703-705.	1.1	45
42	The effect of cell cluster size on intracellular nanoparticle-mediated hyperthermia: is it possible to treat microscopic tumors?. <i>Nanomedicine</i> , 2013, 8, 29-41.	1.7	44
43	Method to reduce non-specific tissue heating of small animals in solenoid coils. <i>International Journal of Hyperthermia</i> , 2013, 29, 106-120.	1.1	22
44	Preliminary study of injury from heating systemically delivered, nontargeted dextranâ€“superparamagnetic iron oxide nanoparticles in mice. <i>Nanomedicine</i> , 2012, 7, 1697-1711.	1.7	71
45	Nanoparticle Redistribution During Magnetic Nanoparticle Hyperthermia: Multi-Physics Porous Medium Model Analyses. , 2012, , .		0
46	Modified Solenoid Coil That Efficiently Produces High Amplitude AC Magnetic Fields With Enhanced Uniformity for Biomedical Applications. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 47-52.	1.2	64
47	Magnetic nanoparticle biodistribution following intratumoral administration. <i>Nanotechnology</i> , 2011, 22, 345101.	1.3	88
48	Internal magnetic structure of dextran coated magnetite nanoparticles in solution using small angle neutron scattering with polarization analysis. <i>Journal of Applied Physics</i> , 2011, 109, 07B513.	1.1	19
49	Magnetic nanoparticle heating efficiency reveals magneto-structural differences when characterized with wide ranging and high amplitude alternating magnetic fields. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	131
50	Magnetic field generating inductor for cancer hyperthermia research. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2011, 30, 1626-1636.	0.5	9
51	Nearly complete regression of tumors via collective behavior of magnetic nanoparticles in hyperthermia. <i>Nanotechnology</i> , 2009, 20, 395103.	1.3	227
52	The influence of magnetic and physiological behaviour on the effectiveness of iron oxide nanoparticles for hyperthermia. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 134020.	1.3	65
53	The influence of collective behavior on the magnetic and heating properties of iron oxide nanoparticles. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	89
54	<i>Short Communication:</i> Nanoparticle Thermo-therapy and External Beam Radiation Therapy for Human Prostate Cancer Cells. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2008, 23, 265-271.	0.7	14

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55	NanoFerrite Particle Based Radioimmunonanoparticles: Binding Affinity and In Vivo Pharmacokinetics. <i>Bioconjugate Chemistry</i> , 2008, 19, 1211-1218.	1.8	99
56	Synthesis and antibody conjugation of magnetic nanoparticles with improved specific power absorption rates for alternating magnetic field cancer therapy. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 311, 181-186.	1.0	133
57	Thermal dosimetry predictive of efficacy of ¹¹¹ In-ChL6 nanoparticle AMF-induced thermoablative therapy for human breast cancer in mice. <i>Journal of Nuclear Medicine</i> , 2007, 48, 437-44.	2.8	75
58	The magnitude and time-dependence of the apoptotic response of normal and malignant cells subjected to ionizing radiation versus hyperthermia. <i>International Journal of Radiation Biology</i> , 2006, 82, 549-559.	1.0	32
59	Development of Tumor Targeting Bioprobes (¹¹¹ In-Chimeric L6 Monoclonal Antibody Nanoparticles) for Alternating Magnetic Field Cancer Therapy. <i>Clinical Cancer Research</i> , 2005, 11, 7087s-7092s.	3.2	183
60	The polymerization of actin: Structural changes from small-angle neutron scattering. <i>Journal of Chemical Physics</i> , 2005, 123, 154904.	1.2	15
61	Application of High Amplitude Alternating Magnetic Fields for Heat Induction of Nanoparticles Localized in Cancer. <i>Clinical Cancer Research</i> , 2005, 11, 7093s-7103s.	3.2	166
62	Neutron Reflectivity of Linear α -Dendritic Diblock Copolymer Monolayers. <i>Macromolecules</i> , 2002, 35, 231-238.	2.2	30
63	Adsorption of Sodium Poly(styrenesulfonate) to the Air Surface of Water by Neutron and X-ray Reflectivity and Surface Tension Measurements: α Polymer Concentration Dependence. <i>Macromolecules</i> , 2002, 35, 9737-9747.	2.2	42
64	Electrochemical and Neutron Reflectivity Characterization of Dodecyl Sulfate Adsorption and Aggregation at the Gold α Water Interface. <i>Langmuir</i> , 2001, 17, 3355-3367.	1.6	96
65	Effect of Solvent Flow on a Polymer Brush: α A Neutron Reflectivity Study of the Brush Height and Chain Density Profile. <i>Langmuir</i> , 2001, 17, 2999-3005.	1.6	44
66	The Effects of Temperature and Methanol Concentration on the Properties of Poly(N-isopropylacrylamide) at the Air/Solution Interface. <i>Langmuir</i> , 2001, 17, 5118-5120.	1.6	11
67	Neutron Reflectivity from the Monolayer of SAN Random Copolymer. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 371, 211-214.	0.3	0
68	Inelastic Neutron Scattering from Filled Elastomers. <i>Rubber Chemistry and Technology</i> , 2000, 73, 847-863.	0.6	10
69	Size Invariance of Polyelectrolyte Dendrimers. <i>Macromolecules</i> , 2000, 33, 4172-4176.	2.2	121
70	Electrochemical and Neutron Reflectivity Studies of Spontaneously Formed Amphiphilic Surfactant Bilayers at the Gold α Solution Interface. <i>Langmuir</i> , 2000, 16, 9861-9870.	1.6	30
71	Adsorption of Lysozyme onto the Silicon Oxide Surface Chemically Grafted with a Monolayer of Pentadecyl-1-ol. <i>Langmuir</i> , 2000, 16, 4999-5007.	1.6	40
72	Adsorption of Poly(styrenesulfonate) to the Air Surface of Water by Neutron Reflectivity. <i>Macromolecules</i> , 2000, 33, 6126-6133.	2.2	44

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73	Structure within Thin Epoxy Films Revealed by Solvent Swelling: A Neutron Reflectivity Study. <i>Macromolecules</i> , 1999, 32, 7932-7938.	2.2	40
74	Structure of Charged Dendrimer Solutions As Seen by Small-Angle Neutron Scattering. <i>Macromolecules</i> , 1999, 32, 5895-5900.	2.2	54
75	The polymerization of actin: Study by small angle neutron scattering. <i>Journal of Chemical Physics</i> , 1998, 108, 5599-5607.	1.2	13
76	Small-Angle Neutron Scattering of Bilayer Vesicles Made with Synthetic Phospholipids. <i>Materials Research Society Symposia Proceedings</i> , 1998, 550, 83.	0.1	0
77	Colloid stability: The forces between charged surfaces in an electrolyte. <i>Journal of Chemical Physics</i> , 1991, 95, 520-532.	1.2	198