

Petr I Nikitin

List of Publications by Year in descending order

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166
papers

4,146
citations

87888

38
h-index

138484

58
g-index

169
all docs

169
docs citations

169
times ranked

2895
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface plasmon resonance interferometer for bio- and chemical-sensors. Optics Communications, 1998, 150, 5-8.	2.1	186
2	New type of biosensor based on magnetic nanoparticle detection. Journal of Magnetism and Magnetic Materials, 2007, 311, 445-449.	2.3	174
3	Phase jumps and interferometric surface plasmon resonance imaging. Applied Physics Letters, 1999, 75, 3917-3919.	3.3	149
4	Surface plasmon resonance interferometry for biological and chemical sensing. Sensors and Actuators B: Chemical, 1999, 54, 43-50.	7.8	145
5	Advanced Smart Nanomaterials with Integrated Logic-Gating and Biocomputing: Dawn of Theranostic Nanorobots. Chemical Reviews, 2018, 118, 10294-10348.	47.7	136
6	Biocomputing based on particle disassembly. Nature Nanotechnology, 2014, 9, 716-722.	31.5	132
7	Surface plasmon resonance interferometry for micro-array biosensing. Sensors and Actuators A: Physical, 2000, 85, 189-193.	4.1	130
8	Nanoparticle-based drug delivery <i>via</i> RBC-hitchhiking for the inhibition of lung metastases growth. Nanoscale, 2019, 11, 1636-1646.	5.6	126
9	Enhancement of the blood-circulation time and performance of nanomedicines via the forced clearance of erythrocytes. Nature Biomedical Engineering, 2020, 4, 717-731.	22.5	103
10	Interferometer based on a surface-plasmon resonance for sensor applications. Quantum Electronics, 1997, 27, 653-654.	1.0	88
11	Magnetic Immunoassay for Detection of Staphylococcal Toxins in Complex Media. Analytical Chemistry, 2013, 85, 1154-1163.	6.5	77
12	Multiplex Biosensing Based on Highly Sensitive Magnetic Nanolabel Quantification: Rapid Detection of Botulinum Neurotoxins A, B, and E in Liquids. Analytical Chemistry, 2016, 88, 10419-10426.	6.5	76
13	Rapid dry-reagent immunomagnetic biosensing platform based on volumetric detection of nanoparticles on 3D structures. Biosensors and Bioelectronics, 2016, 79, 423-429.	10.1	70
14	Rapid lateral flow assays based on the quantification of magnetic nanoparticle labels for multiplexed immunodetection of small molecules: application to the determination of drugs of abuse. Mikrochimica Acta, 2019, 186, 621.	5.0	67
15	Nanoparticle Beacons: Supersensitive Smart Materials with On/Off-Switchable Affinity to Biomedical Targets. ACS Nano, 2020, 14, 1792-1803.	14.6	53
16	Surface plasmon resonance bio- and chemical sensors with phase-polarisation contrast. Sensors and Actuators B: Chemical, 1999, 54, 51-56.	7.8	52
17	Multiplex biosensing with highly sensitive magnetic nanoparticle quantification method. Journal of Magnetism and Magnetic Materials, 2018, 459, 260-264.	2.3	51
18	Experimental study of spontaneous electric field generated by a laser plasma. Applied Physics Letters, 1998, 73, 25-27.	3.3	50

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19	Long-Term Fate of Magnetic Particles in Mice: A Comprehensive Study. ACS Nano, 2021, 15, 11341-11357.	14.6	50
20	Magnetic Immunoassays. Sensor Letters, 2007, 5, 296-299.	0.4	50
21	Phase-polarisation contrast for surface plasmon resonance biosensors1This paper was presented at the Fifth World Congress on Biosensors, Berlin, Germany, 3â€“5 June 1998.1. Biosensors and Bioelectronics, 1998, 13, 1263-1269.	10.1	49
22	The Faraday effect in semimagnetic semiconductors. Uspekhi Fizicheskikh Nauk, 1990, 33, 974-989.	0.3	48
23	MPQ-cytometry: a magnetism-based method for quantification of nanoparticleâ€“cell interactions. Nanoscale, 2016, 8, 12764-12772.	5.6	48
24	Ultrasensitive quantitative detection of small molecules with rapid lateral-flow assay based on high-affinity bifunctional ligand and magnetic nanolabels. Analytica Chimica Acta, 2018, 1034, 161-167.	5.4	48
25	Ultrasensitive detection enabled by nonlinear magnetization of nanomagnetic labels. Nanoscale, 2018, 10, 11642-11650.	5.6	48
26	Fast processes of nanoparticle blood clearance: Comprehensive study. Journal of Controlled Release, 2020, 326, 181-191.	9.9	46
27	Dark-field surface plasmon resonance microscopy. Optics Communications, 2000, 174, 151-155.	2.1	45
28	Spectral-phase interference method for detecting biochemical reactions on a surface. Quantum Electronics, 2000, 30, 1099-1104.	1.0	45
29	Analytical Platform with Selectable Assay Parameters Based on Three Functions of Magnetic Nanoparticles: Demonstration of Highly Sensitive Rapid Quantitation of Staphylococcal Enterotoxin B in Food. Analytical Chemistry, 2019, 91, 9852-9857.	6.5	45
30	In vivo blockade of mononuclear phagocyte system with solid nanoparticles: Efficiency and affecting factors. Journal of Controlled Release, 2021, 330, 111-118.	9.9	44
31	New direct optical biosensors for multi-analyte detection. Sensors and Actuators B: Chemical, 2003, 90, 46-51.	7.8	43
32	Quantitative real-time in vivo detection of magnetic nanoparticles by their nonlinear magnetization. Journal of Applied Physics, 2008, 103, 07A304.	2.5	43
33	Highly sensitive room-temperature method of non-invasive in vivo detection of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2009, 321, 1658-1661.	2.3	42
34	Highly reproducible and sensitive detection of mycotoxins by label-free biosensors. Sensors and Actuators B: Chemical, 2017, 246, 1080-1084.	7.8	42
35	Phase properties of a surface-plasmon resonance from the viewpoint of sensor applications. Quantum Electronics, 1998, 28, 444-448.	1.0	41
36	Surface plasmon resonance as a tool for investigation of non-covalent nanoparticle interactions in heterogeneous self-assembly & disassembly systems. Biosensors and Bioelectronics, 2017, 88, 3-8.	10.1	41

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37	Real-time detection of ochratoxin A in wine through insight of aptamer conformation in conjunction with graphene field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113890.	10.1	41
38	Nonlinear magnetic stochastic resonance: Noise-strength vs constant-force diagrams. <i>Physical Review E</i> , 1997, 56, 6400-6409.	2.1	40
39	A new real-time method for investigation of affinity properties and binding kinetics of magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 380, 231-235.	2.3	39
40	The detection of phenols in water using a surface plasmon resonance system with specific receptors. <i>Sensors and Actuators B: Chemical</i> , 1998, 51, 305-310.	7.8	38
41	Multiplex label-free biosensor for detection of autoantibodies in human serum: Tool for new kinetics-based diagnostics of autoimmune diseases. <i>Biosensors and Bioelectronics</i> , 2020, 159, 112187.	10.1	38
42	Experimental observation of magnetostochastic resonance. <i>Journal of Applied Physics</i> , 1994, 76, 6335-6337.	2.5	37
43	Magnetic hybrid magnetite/metal organic framework nanoparticles: facile preparation, post-synthetic biofunctionalization and tracking in vivo with magnetic methods. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 449, 590-596.	2.3	36
44	Nanomagnetic lateral flow assay for high-precision quantification of diagnostically relevant concentrations of serum TSH. <i>Talanta</i> , 2020, 216, 120961.	5.5	36
45	Amorphous magnetic films produced by pulsed laser deposition. <i>Journal of Applied Physics</i> , 1997, 82, 1408-1415.	2.5	34
46	Picoscope, a new label-free biosensor. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 500-504.	7.8	33
47	Generation and delivery of nanoaerosols from biological and biologically active substances. <i>Journal of Aerosol Science</i> , 2014, 69, 48-61.	3.8	33
48	Frequency mixing in a bistable system in the presence of noise. <i>Journal of Experimental and Theoretical Physics</i> , 1997, 85, 343-350.	0.9	31
49	Epitaxial yttrium iron garnet film as an active medium of an even-harmonic magnetic field transducer. <i>Sensors and Actuators A: Physical</i> , 2003, 106, 270-273.	4.1	31
50	Reversible Conformational Transitions of a Polymer Brush Containing Boronic Acid and its Interaction with Mucin Glycoprotein. <i>Macromolecular Bioscience</i> , 2011, 11, 275-284.	4.1	31
51	Direct immunosensing by spectral correlation interferometry: assay characteristics versus antibody immobilization chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3955-3964.	3.7	31
52	Express high-sensitive detection of ochratoxin A in food by a lateral flow immunoassay based on magnetic biolabels. <i>Food Chemistry</i> , 2022, 383, 132427.	8.2	27
53	Development and label-free investigation of logic-gating bilayers for smart biosensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 971-979.	7.8	25
54	Systematic Review of Cancer Targeting by Nanoparticles Revealed a Global Association between Accumulation in Tumors and Spleen. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13011.	4.1	24

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55	Detection of pyrethroids by spectral correlation interferometry. <i>Applied Biochemistry and Microbiology</i> , 2013, 49, 306-311.	0.9	23
56	Dynamic light scattering biosensing based on analyte-induced inhibition of nanoparticle aggregation. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3423-3431.	3.7	23
57	Development of Immunoassays Using Interferometric Real-Time Registration of Their Kinetics. <i>Acta Naturae</i> , 2014, 6, 85-95.	1.7	22
58	Interferometric detection of chloramphenicol via its immunochemical recognition at polymer-coated nano-corrugated surfaces. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 984-991.	7.8	21
59	Silicon-based surface plasmon resonance chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 1997, 38, 53-57.	7.8	20
60	ZnO-based semimagnetic semiconductors: growth and magnetism aspects. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 109, 196-199.	3.5	20
61	New aspect of giant exciton Faraday rotation in Cd _{1-x} Mnx Te semimagnetic compound: Fundamentals and applications. <i>Sensors and Actuators A: Physical</i> , 1990, 23, 875-878.	4.1	19
62	Stochastic resonance in a bistable magnetic system. <i>IEEE Transactions on Magnetics</i> , 1995, 31, 2491-2493.	2.1	19
63	Electric fields of a laser spark produced by radiation with various parameters. <i>Quantum Electronics</i> , 1997, 27, 536-541.	1.0	19
64	Nanobiosensing based on optically selected antibodies and superparamagnetic labels for rapid and highly sensitive quantification of polyvalent hepatitis B surface antigen. <i>Analytical Methods</i> , 2021, 13, 2424-2433.	2.7	19
65	A multi-purpose sensor based on surface plasmon polariton resonance in a Schottky structure. <i>Sensors and Actuators A: Physical</i> , 1994, 42, 547-552.	4.1	18
66	Frequency mixing phenomena in a bistable system. <i>Journal of Applied Physics</i> , 1996, 79, 6113.	2.5	18
67	Rapid and Easy-to-Use Method for Accurate Characterization of Target Binding and Kinetics of Magnetic Particle Bioconjugates for Biosensing. <i>Sensors</i> , 2021, 21, 2802.	3.8	17
68	Laser Synthesized Core-Satellite Fe-Au Nanoparticles for Multimodal In Vivo Imaging and In Vitro Photothermal Therapy. <i>Pharmaceutics</i> , 2022, 14, 994.	4.5	17
69	Investigation of currents accompanying optical breakdown in air near a conducting target. <i>Soviet Journal of Quantum Electronics</i> , 1981, 11, 923-928.	0.1	16
70	Synthetic peptide fragment (65-76) of monocyte chemoattractant protein-1 (MCP-1) inhibits MCP-1 binding to heparin and possesses anti-inflammatory activity in stable angina patients after coronary stenting. <i>Inflammation Research</i> , 2011, 60, 955-964.	4.0	15
71	Fire ball formation and evolution in the case of low-threshold optical breakdown plasma generation in ambient gases in front of various solid samples. <i>Journal of Applied Physics</i> , 1989, 66, 5204-5215.	2.5	14
72	Electric fields of a laser plasma formed by optical breakdown of air near various targets. <i>Quantum Electronics</i> , 1998, 28, 24-28.	1.0	14

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73	Binding of mucin to water-soluble and surface-grafted boronate-containing polymers. <i>Polymer Science - Series A</i> , 2012, 54, 1-10.	1.0	14
74	A comprehensive study of interactions between lectins and glycoproteins for the development of effective theranostic nanoagents. <i>Doklady Biochemistry and Biophysics</i> , 2015, 464, 315-318.	0.9	14
75	Magnetometry based method for investigation of nanoparticle clearance from circulation in a liver perfusion model. <i>Nanotechnology</i> , 2019, 30, 105101.	2.6	14
76	Direct photoacoustic measurement of silicon nanoparticle degradation promoted by a polymer coating. <i>Chemical Engineering Journal</i> , 2022, 430, 132860.	12.7	14
77	Highly Sensitive Nanomagnetic Quantification of Extracellular Vesicles by Immunochromatographic Strips: A Tool for Liquid Biopsy. <i>Nanomaterials</i> , 2022, 12, 1579.	4.1	14
78	Magnetic field fibre-optical sensors based on Faraday effect. <i>Sensors and Actuators A: Physical</i> , 1991, 27, 767-774.	4.1	13
79	Deposition of thin ferromagnetic films for application in magnetic sensor microsystems. <i>Sensors and Actuators A: Physical</i> , 1998, 68, 442-446.	4.1	13
80	Visualisation of the angular dependence of the reflected-radiation phase under conditions of a surface-plasmon resonance and its sensor applications. <i>Quantum Electronics</i> , 1998, 28, 835-839.	1.0	13
81	Platelet-shaped nanoparticles of PbI ₂ and PbMnI ₂ embedded in polymer matrix. <i>Materials Science and Engineering C</i> , 2002, 19, 59-62.	7.3	13
82	Nonviral Locally Injected Magnetic Vectors for In Vivo Gene Delivery: A Review of Studies on Magnetofection. <i>Nanomaterials</i> , 2021, 11, 1078.	4.1	13
83	Spectral-Phase Interferometry Detection of Ochratoxin A via Aptamer-Functionalized Graphene Coated Glass. <i>Nanomaterials</i> , 2021, 11, 226.	4.1	13
84	Multiplex Label-Free Kinetic Characterization of Antibodies for Rapid Sensitive Cardiac Troponin I Detection Based on Functionalized Magnetic Nanotags. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4474.	4.1	13
85	Two-dimensional and zero-dimensional structures of semimagnetic semiconductors prepared by pulsed laser deposition. <i>Thin Solid Films</i> , 1998, 336, 176-178.	1.8	12
86	Optical and magneto-optical study of CdTe crystals doped with rare earth ions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003, 105, 161-164.	3.5	12
87	Two-dimensional treatment of nonlinear thermoelectricity in homogeneous metals. <i>Physical Review B</i> , 1990, 42, 7405-7408.	3.2	11
88	Silicon-based surface plasmon resonance combined with surface-enhanced Raman scattering for chemical sensing. <i>Review of Scientific Instruments</i> , 1997, 68, 2554-2557.	1.3	11
89	Spin-tunneling magnetoresistive sensors. <i>Sensors and Actuators A: Physical</i> , 2000, 85, 221-226.	4.1	11
90	Magnetofection In Vivo by Nanomagnetic Carriers Systemically Administered into the Bloodstream. <i>Pharmaceutics</i> , 2021, 13, 1927.	4.5	11

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91	Laser-plasma generation of currents along a conductive target. Journal of Applied Physics, 1990, 68, 3140-3146.	2.5	10
92	Magnetostochastic resonance as a new method for investigations of surface and thin film magnetism. Applied Surface Science, 1996, 92, 466-470.	6.1	10
93	Innovative analytical system for screening on lectins. Biosensors and Bioelectronics, 2006, 22, 28-34.	10.1	10
94	Thermoelectric phenomena in metals under large temperature gradients. Journal of Applied Physics, 1991, 69, 3375-3377.	2.5	9
95	Laser synthesis and magneto-optics of thin films of amorphous magnetics. Quantum Electronics, 1996, 26, 375-376.	1.0	9
96	Antitumor effects of the combination of magnetohydrodynamic thermochemotherapy and magnetic resonance tomography. Pharmaceutical Chemistry Journal, 2010, 44, 291-295.	0.8	9
97	Faraday rotation in Fe-based semimagnetic semiconductors. IEEE Transactions on Magnetics, 1992, 28, 3246-3248.	2.1	8
98	Study of biochemical reactions in thin organic films by means of evanescent optical wave. Applied Surface Science, 1996, 92, 426-430.	6.1	8
99	Giant Faraday Rotation in CdTe Spin-Doped with Rare Earth Ions. Physica Status Solidi (B): Basic Research, 2002, 229, 787-790.	1.5	8
100	Synthesis and Characterization of Hybrid Core-Shell Fe ₃ O ₄ /SiO ₂ Nanoparticles for Biomedical Applications. Acta Naturae, 2017, 9, 58-65.	1.7	8
101	Fiber optic magnetic field sensors based on Faraday effect in new materials. , 1991, , .		7
102	Magneto-optical effects induced by exchange interaction in diluted magnetic semiconductors. IEEE Transactions on Magnetics, 1993, 29, 3399-3401.	2.1	7
103	New method of magnetic field and current generation outside laser plasma. Applied Physics Letters, 1996, 68, 173-175.	3.3	7
104	Magnetic field sensors based on thin film multi-layer structures. Sensors and Actuators A: Physical, 2003, 106, 26-29.	4.1	7
105	The Faraday effect in dilute magnetic semiconductors in ultrahigh magnetic field. IEEE Transactions on Magnetics, 1993, 29, 3422-3424.	2.1	6
106	Faraday effect in thin amorphous magnetic films. Sensors and Actuators A: Physical, 1997, 59, 323-326.	4.1	6
107	Faraday effect in CdMnTe nanocrystals grown by the laser deposition method. Quantum Electronics, 1998, 28, 561-563.	1.0	6
108	Evidence of ferromagnetic behavior of small liquid droplets produced from amorphous alloys by laser ablation. Applied Physics Letters, 1998, 72, 3455-3457.	3.3	6

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109	Technological aspects of fabrication of semimagnetic semiconductor nanocrystals. <i>Materials Science and Engineering C</i> , 2001, 15, 79-81.	7.3	6
110	Synthesis of polymer magnetic microspheres for immunomagnetometric assay. <i>Polymer Science - Series A</i> , 2006, 48, 353-358.	1.0	6
111	Effect of the C-terminal domain peptide fragment (65â€“76) of monocytic chemotactic protein-1 (MCP-1) on the interaction between MCP-1 and heparin. <i>Doklady Biological Sciences</i> , 2010, 433, 289-292.	0.6	6
112	Non-Invasive in vivo Mapping and Long-Term Monitoring of Magnetic Nanoparticles in Different Organs of Animals. , 2010, , .		6
113	Designing a magnetic inductive micro-electrode for virus monitoring: modelling and feasibility for hepatitis B virus. <i>Mikrochimica Acta</i> , 2020, 187, 463.	5.0	6
114	Synthesis of sheet conductive layers on the surface of some insulator ceramics (TiO ₂ , ZrO ₂ , HfO ₂) by multipulse CO ₂ â€“laser irradiation in an ammonia atmosphere. <i>Journal of Applied Physics</i> , 1989, 66, 3682-3687.	2.5	5
115	Observation of stochastic resonance in a monostable magnetic system. <i>JETP Letters</i> , 1997, 65, 828-832.	1.4	5
116	Ferromagnetic liquid droplets. <i>JETP Letters</i> , 1998, 67, 723-726.	1.4	5
117	Laser and sputter-deposited amorphous films for stress detection. <i>Sensors and Actuators A: Physical</i> , 2000, 81, 254-257.	4.1	5
118	Data on characterization and validation of assays for ultrasensitive quantitative detection of small molecules: Determination of free thyroxine with magnetic and interferometric methods. <i>Data in Brief</i> , 2018, 21, 1603-1611.	1.0	5
119	Synthesis of Luminescent Magnetic Nanoparticles with Controllable Surface Properties. , 2018, , .		5
120	Development of immunoassays using interferometric real-time registration of their kinetics. <i>Acta Naturae</i> , 2014, 6, 85-95.	1.7	5
121	Metallic thin-film diffraction grating as a new type of radiation detector. <i>Sensors and Actuators A: Physical</i> , 1990, 22, 498-502.	4.1	4
122	New Multinary Semimagnetic Semiconductors for Faraday Rotation Magnetic Field Sensors. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 375.	1.5	4
123	Space-time structure of the magnetic field of a laser plasma and methods for its enhancement outside the plasma. <i>Physical Review E</i> , 1997, 55, 3393-3399.	2.1	4
124	Spatial features of laser deposition of amorphous Co â€“ Fe â€“ B â€“ Si magnetic films in an inhomogeneous magnetic field. <i>Quantum Electronics</i> , 1998, 28, 78-80.	1.0	4
125	Enhancement of magneto-optical effects in ZnHgMnTe solid solutions. <i>Journal of Crystal Growth</i> , 1999, 197, 698-701.	1.5	4
126	<title>Multichannel optical biosensors for label-free high-throughput screening</title>. , 2002, 4578, 126.		4

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127	Volumetric registration of magnetic nanoparticles for optimization of quantitative immunochromatographic assays for detection of small molecules. EPJ Web of Conferences, 2018, 185, 10006.	0.3	4
128	Data on characterization of glass biochips and validation of the label-free biosensor for detection of autoantibodies in human serum. Data in Brief, 2020, 30, 105648.	1.0	4
129	Macrophage blockade using nature-inspired ferrihydrite for enhanced nanoparticle delivery to tumor. International Journal of Pharmaceutics, 2022, 621, 121795.	5.2	4
130	Magnetic-field sensors for non-disturbing and wide-band measurements. Sensors and Actuators A: Physical, 1992, 32, 671-677.	4.1	3
131	<title>Pesticide sensing by surface-plasmon resonance</title>. , 1995, , .		3
132	A new technique for high frequency sub-threshold magnetic field sensing in nanometer scale based upon magnetostochastic resonance. Sensors and Actuators A: Physical, 1997, 59, 277-279.	4.1	3
133	Giant magnetoresistance of semimagnetic semiconductors and applications for magnetic field sensors. Sensors and Actuators A: Physical, 2001, 91, 173-176.	4.1	3
134	Magneto-hydrodynamic Thermochemotherapy and MRI of Malignant Tumorigenesis. Solid State Phenomena, 2012, 190, 717-720.	0.3	3
135	Complexes of magnetic nanoparticles and scFv antibodies for targeting and visualizing cancer cells. , 2015, , .		3
136	Electromagnetic diagnostics during pulsed laser deposition. Applied Surface Science, 1996, 96-98, 139-143.	6.1	2
137	Detection of nitrogen dioxide by means of a gold film in a surface-plasmon resonance scheme. Technical Physics Letters, 1997, 23, 920-922.	0.7	2
138	Optical picoscopes: new opportunities for biosensing and for molecular technologies. Proceedings of SPIE, 2007, , .	0.8	2
139	Intelligent Nanoparticle-Based Agents for Biomedical Applications: Rapid Design Using a Lateral Flow Assay. , 2018, , .		2
140	Synthesis and Characterization of Hybrid Core-Shell Fe ₃ O ₄ /SiO ₂ Nanoparticles for Biomedical Applications. Acta Naturae, 2017, 9, 58-65.	1.7	2
141	Anisotropic Faraday Rotation of Cubic Semimagnetic Semiconductor Cd _{1-x} Fe _x Te. Japanese Journal of Applied Physics, 1993, 32, 393.	1.5	2
142	Probe investigations of a surface plasma created by a train of nanosecond CO ₂ laser pulses. Soviet Journal of Quantum Electronics, 1989, 19, 535-537.	0.1	1
143	<title>Optoelectronic gas sensors based on surface plasmon resonance in Si-structure</title>. Proceedings of SPIE, 1995, , .	0.8	1
144	<title>Phase jump under surface plasmon resonance and its use for biosensing and microscopy</title>. , 1999, , .		1

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145	Sandwiched thin-film structures for the magnetoresistive spin-tunnelling sensors. Sensors and Actuators A: Physical, 2000, 81, 57-59.	4.1	1
146	Growth and investigation of ZnHgMnTe crystals for magnetic field sensors. Sensors and Actuators A: Physical, 2000, 81, 240-243.	4.1	1
147	MRI-Adaptive Magneto-Thermo-Chemotherapy for Improved Cancer Treatment. , 2010, , .		1
148	<title>Smart integrated transducer for an optoelectronic (bio-) chemical sensor</title>. , 1994, 2361, 375.		0
149	Novel peptide matrix for immobilization of biomolecules for surface plasmon resonance sensing. , 1999, , .		0
150	Magneto-optical characterization of magnetic photorefractive semiconductors. Optical Materials, 2001, 18, 147-149.	3.6	0
151	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2003, 16, 465-468.	0.5	0
152	Inhibitor of inflammation, peptide fragment (65â€“76) of monocyte chemoattractant protein-1 (MCP-1), inhibits binding of MCP-1 to heparin. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2011, 5, 29-36.	0.6	0
153	Biosensors based on spectral correlation interferometry for biomedical research and diagnostics. , 2014, , .		0
154	Combined Photodynamic Thermochemotherapy of Glioma Tumors Controlled by MRI and Electronic Sensor. Solid State Phenomena, 0, 233-234, 757-760.	0.3	0
155	Lectin-based nanoagents for specific cell labelling and optical visualization. , 2016, , .		0
156	Optical method for studying self-assembly of various nanoparticles in liquids. , 2016, , .		0
157	Near infrared luminescent-magnetic nanoparticles for bimodal imaging in vivo. , 2016, , .		0
158	Synthesis of magnetic silica nanomarkers with controlled physicochemical properties. Doklady Biochemistry and Biophysics, 2016, 470, 335-337.	0.9	0
159	Highly sensitive optical methods for life-science applications. , 2018, , .		0
160	Real-Time Optical Methods for Development of Nanoparticle-Based Biosensors for Detection of Hepatitis B Surface Antigen. , 2018, , .		0
161	Designing a Capacitive Immunosensor for Detection of Hepatitis B Surface Antigen. , 2018, , .		0
162	Novel Static Criterion for Magnetic Sensor Film Saturation. Sensor Letters, 2007, 5, 189-191.	0.4	0

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163	Fiber-optical magnetic field sensors based on Faraday effect in new materials. , 1991, , .		0
164	Biosensing and Theranostics Using Functionalized Magnetic and Plasmonic Nanoparticles. , 2020, , .		0
165	Development of Rapid Multiparametric Methods of Molecular Biosensing for Early Diagnostics and Monitoring of Oncology Diseases. , 2020, , .		0
166	Multi-parameter label-free biosensing with self-assembled smart biolayers that transform each sensing channel into a multiplex channel. , 2020, , .		0