

Valery A Petrenko

List of Publications by Year in descending order

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77
papers

5,389
citations

87888

38
h-index

82547

72
g-index

77
all docs

77
docs citations

77
times ranked

4608
citing authors

#	ARTICLE	IF	CITATIONS
1	Phage Display. <i>Chemical Reviews</i> , 1997, 97, 391-410.	47.7	1,502
2	Phage display for detection of biological threat agents. <i>Journal of Microbiological Methods</i> , 2003, 53, 253-262.	1.6	236
3	Phage as a molecular recognition element in biosensors immobilized by physical adsorption. <i>Biosensors and Bioelectronics</i> , 2007, 22, 986-992.	10.1	176
4	Affinity-selected filamentous bacteriophage as a probe for acoustic wave biodetectors of <i>Salmonella typhimurium</i> . <i>Biosensors and Bioelectronics</i> , 2006, 21, 1434-1442.	10.1	153
5	Detection of <i>Salmonella typhimurium</i> in fat free milk using a phage immobilized magnetoelastic sensor. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 544-550.	7.8	126
6	Phagemid Vectors for Phage Display: Properties, Characteristics and Construction. <i>Journal of Molecular Biology</i> , 2012, 417, 129-143.	4.2	125
7	Phages from landscape libraries as substitute antibodies. <i>Protein Engineering, Design and Selection</i> , 2000, 13, 589-592.	2.1	118
8	Phage immobilized magnetoelastic sensor for the detection of <i>Salmonella typhimurium</i> . <i>Journal of Microbiological Methods</i> , 2007, 71, 55-60.	1.6	113
9	Landscape phage probes for <i>Salmonella typhimurium</i> . <i>Journal of Microbiological Methods</i> , 2005, 63, 55-72.	1.6	104
10	Detection of biological threats. A challenge for directed molecular evolution. <i>Journal of Microbiological Methods</i> , 2004, 58, 147-168.	1.6	101
11	Colorimetric Assay of Bacterial Pathogens Based on Co ₃ O ₄ Magnetic Nanozymes Conjugated with Specific Fusion Phage Proteins and Magnetophoretic Chromatography. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9090-9097.	8.0	95
12	Specific Probe Selection from Landscape Phage Display Library and Its Application in Enzyme-Linked Immunosorbent Assay of Free Prostate-Specific Antigen. <i>Analytical Chemistry</i> , 2014, 86, 2767-2774.	6.5	94
13	Gold nanoprobe functionalized with specific fusion protein selection from phage display and its application in rapid, selective and sensitive colorimetric biosensing of <i>Staphylococcus aureus</i> . <i>Biosensors and Bioelectronics</i> , 2016, 82, 195-203.	10.1	93
14	Paclitaxel-Loaded Polymeric Micelles Modified with MCF-7 Cell-Specific Phage Protein: Enhanced Binding to Target Cancer Cells and Increased Cytotoxicity. <i>Molecular Pharmaceutics</i> , 2010, 7, 1007-1014.	4.6	91
15	Delivery of siRNA into breast cancer cells via phage fusion protein-targeted liposomes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 315-323.	3.3	85
16	Diagnostic Probes for <i>Bacillus anthracis</i> Spores Selected from a Landscape Phage Library. <i>Clinical Chemistry</i> , 2004, 50, 1899-1906.	3.2	84
17	Thermostability of landscape phage probes. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 1346-1350.	3.7	84
18	Phage display selection of peptides that affect prostate carcinoma cells attachment and invasion. <i>Prostate</i> , 2001, 47, 239-251.	2.3	79

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19	Enhanced binding and killing of target tumor cells by drug-loaded liposomes modified with tumor-specific phage fusion coat protein. <i>Nanomedicine</i> , 2010, 5, 563-574.	3.3	78
20	Detection of <i>Bacillus anthracis</i> spores in liquid using phage-based magnetoelastic micro-resonators. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 559-566.	7.8	72
21	Synergetic Targeted Delivery of Sleeping Beauty Transposon System to Mesenchymal Stem Cells Using LPD Nanoparticles Modified with a Phage-Displayed Targeting Peptide. <i>Advanced Functional Materials</i> , 2013, 23, 1172-1181.	14.9	72
22	Phage coated magnetoelastic micro-biosensors for real-time detection of <i>Bacillus anthracis</i> spores. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 501-506.	7.8	71
23	A wireless biosensor using microfabricated phage-interfaced magnetoelastic particles. <i>Sensors and Actuators A: Physical</i> , 2008, 144, 38-47.	4.1	70
24	A Label-Free Electrochemical Impedance Cytosensor Based on Specific Peptide-Fused Phage Selected from Landscape Phage Library. <i>Scientific Reports</i> , 2016, 6, 22199.	3.3	70
25	Cytoplasmic Delivery of Liposomes into MCF-7 Breast Cancer Cells Mediated by Cell-Specific Phage Fusion Coat Protein. <i>Molecular Pharmaceutics</i> , 2010, 7, 1149-1158.	4.6	60
26	Bio-mimetic Nanostructure Self-assembled from Au@Ag Heterogeneous Nanorods and Phage Fusion Proteins for Targeted Tumor Optical Detection and Photothermal Therapy. <i>Scientific Reports</i> , 2014, 4, 6808.	3.3	60
27	Sensitive colorimetric immunoassay of <i>Vibrio parahaemolyticus</i> based on specific nonapeptide probe screening from a phage display library conjugated with MnO ₂ nanosheets with peroxidase-like activity. <i>Nanoscale</i> , 2018, 10, 2825-2833.	5.6	60
28	Evolutionary Selection of New Breast Cancer Cell-Targeting Peptides and Phages with the Cell-Targeting Peptides Fully Displayed on the Major Coat and Their Effects on Actin Dynamics during Cell Internalization. <i>Molecular Pharmaceutics</i> , 2010, 7, 1629-1642.	4.6	58
29	Identifying Diagnostic Peptides for Lyme Disease through Epitope Discovery. <i>Vaccine Journal</i> , 2001, 8, 150-160.	2.6	56
30	Landscape phage as a molecular recognition interface for detection devices. <i>Microelectronics Journal</i> , 2008, 39, 202-207.	2.0	55
31	Phage-Based Magnetoelastic Wireless Biosensors for Detecting <i>Bacillus Anthracis</i> Spores. <i>IEEE Sensors Journal</i> , 2007, 7, 470-477.	4.7	52
32	Magnetostrictive Microcantilever as an Advanced Transducer for Biosensors. <i>Sensors</i> , 2007, 7, 2929-2941.	3.8	50
33	Enhanced tumor delivery and antitumor activity in vivo of liposomal doxorubicin modified with MCF-7-specific phage fusion protein. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 421-430.	3.3	50
34	Liposomes targeted by fusion phage proteins. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2009, 5, 83-89.	3.3	47
35	Phage protein-targeted cancer nanomedicines. <i>FEBS Letters</i> , 2014, 588, 341-349.	2.8	47
36	Targeted Delivery of siRNA into Breast Cancer Cells via Phage Fusion Proteins. <i>Molecular Pharmaceutics</i> , 2013, 10, 551-559.	4.6	46

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37	Effects of surface functionalization on the surface phage coverage and the subsequent performance of phage-immobilized magnetoelastic biosensors. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2361-2367.	10.1	43
38	Design and characterization of a magnetoelastic sensor for the detection of biological agents. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 015004.	2.8	40
39	Landscape Phage: Evolution from Phage Display to Nanobiotechnology. <i>Viruses</i> , 2018, 10, 311.	3.3	40
40	Landscape phage fusion protein-mediated targeting of nanomedicines enhances their prostate tumor cell association and cytotoxic efficiency. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 538-546.	3.3	39
41	Cell targeted phagemid rescued by preselected landscape phage. <i>Gene</i> , 2004, 341, 59-65.	2.2	38
42	Cross-linked filamentous phage as an affinity matrix. <i>Journal of Immunological Methods</i> , 1998, 215, 151-161.	1.4	35
43	Specific phages-based electrochemical impedimetric immunosensors for label-free and ultrasensitive detection of dual prostate-specific antigens. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126727.	7.8	35
44	Phage probes for malignant glial cells. <i>Molecular Cancer Therapeutics</i> , 2003, 2, 1129-37.	4.1	35
45	Selected landscape phage probe as selective recognition interface for sensitive total prostate-specific antigen immunosensor. <i>Biosensors and Bioelectronics</i> , 2018, 106, 1-6.	10.1	34
46	Paclitaxel-Loaded PEG-PE-Based Micellar Nanopreparations Targeted with Tumor-Specific Landscape Phage Fusion Protein Enhance Apoptosis and Efficiently Reduce Tumors. <i>Molecular Cancer Therapeutics</i> , 2014, 13, 2864-2875.	4.1	31
47	Affinity Comparison of p3 and p8 Peptide Displaying Bacteriophages Using Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2013, 85, 10075-10082.	6.5	30
48	Peptide Microarray with Ligands at High Density Based on Symmetrical Carrier Landscape Phage for Detection of Cellulase. <i>Analytical Chemistry</i> , 2014, 86, 5844-5850.	6.5	30
49	Infective and inactivated filamentous phage as carriers for immunogenic peptides. <i>Journal of Virological Methods</i> , 2012, 183, 63-68.	2.1	29
50	Landscape phages and their fusion proteins targeted to breast cancer cells. <i>Protein Engineering, Design and Selection</i> , 2012, 25, 271-283.	2.1	27
51	Specific ligands for classical swine fever virus screened from landscape phage display library. <i>Antiviral Research</i> , 2014, 109, 68-71.	4.1	27
52	Selection of pancreatic cancer cell-binding landscape phages and their use in development of anticancer nanomedicines. <i>Protein Engineering, Design and Selection</i> , 2014, 27, 235-243.	2.1	25
53	<i>In vitro</i> optimization of liposomal nanocarriers prepared from breast tumor cell specific phage fusion protein. <i>Journal of Drug Targeting</i> , 2011, 19, 597-605.	4.4	24
54	Phage Display for Generating Peptide Reagents. <i>Current Protocols in Protein Science</i> , 2008, 51, Unit 18.9.	2.8	22

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55	Paradigm shift in bacteriophage-mediated delivery of anticancer drugs: from targeted "magic bullets"™ to self-navigated "magic missiles"™. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 373-384.	5.0	22
56	Blocking Agent Optimization for Nonspecific Binding on Phage Based Magnetoelastic Biosensors. <i>Journal of the Electrochemical Society</i> , 2012, 159, B818-B823.	2.9	21
57	Phage display allows identification of zona pellucida-binding peptides with species-specific properties: Novel approach for development of contraceptive vaccines for wildlife. <i>Journal of Biotechnology</i> , 2012, 162, 311-318.	3.8	21
58	An efficient strategy to synthesize a multifunctional ferroferric oxide core@ SiO_2 @Au shell nanocomposite and its targeted tumor theranostics. <i>Journal of Materials Chemistry B</i> , 2017, 5, 8209-8218.	5.8	21
59	Combinatorial synthesis and screening of cancer cell-specific nanomedicines targeted via phage fusion proteins. <i>Frontiers in Microbiology</i> , 2015, 6, 628.	3.5	18
60	Humoral immune responses against gonadotropin releasing hormone elicited by immunization with phage-peptide constructs obtained via phage display. <i>Journal of Biotechnology</i> , 2015, 216, 20-28.	3.8	18
61	On the Mechanism of Targeting of Phage Fusion Protein-Modified Nanocarriers: Only the Binding Peptide Sequence Matters. <i>Molecular Pharmaceutics</i> , 2011, 8, 1720-1728.	4.6	14
62	A pulse system for spectrum analysis of magnetoelastic biosensors. <i>Applied Physics Letters</i> , 2010, 96, 163502.	3.3	13
63	Promiscuous tumor targeting phage proteins. <i>Protein Engineering, Design and Selection</i> , 2016, 29, 93-103.	2.1	13
64	Autonomous self-navigating drug-delivery vehicles: from science fiction to reality. <i>Therapeutic Delivery</i> , 2017, 8, 1063-1075.	2.2	12
65	Evolution of a Landscape Phage Library in a Mouse Xenograft Model of Human Breast Cancer. <i>Viruses</i> , 2019, 11, 988.	3.3	12
66	Combinatorial Avidity Selection of Mosaic Landscape Phages Targeted at Breast Cancer Cells"An Alternative Mechanism of Directed Molecular Evolution. <i>Viruses</i> , 2019, 11, 785.	3.3	11
67	Phage matrix for isolation of glioma cell membrane proteins. <i>BioTechniques</i> , 2004, 37, 254-260.	1.8	10
68	Metastatic prostate cancer cell-specific phage-like particles as a targeted gene-delivery system. <i>Journal of Nanobiotechnology</i> , 2013, 11, 31.	9.1	10
69	Optimization of Landscape Phage Fusion Protein-Modified Polymeric Peg-Pe Micelles for Improved Breast Cancer Cell Targeting. <i>Journal of Nanomedicine & Nanotechnology</i> , 2011, s4, 008.	1.1	10
70	Phage-Displayed Mimotopes of SARS-CoV-2 Spike Protein Targeted to Authentic and Alternative Cellular Receptors. <i>Viruses</i> , 2022, 14, 384.	3.3	10
71	Selection of Lung Cancer-Specific Landscape Phage for Targeted Drug Delivery. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2016, 19, 412-422.	1.1	9
72	Phage-derived protein-mediated targeted chemotherapy of pancreatic cancer. <i>Journal of Drug Targeting</i> , 2018, 26, 505-515.	4.4	7

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73	Selection of PCB binding phages as potential biorecognition elements for food and environmental monitoring. <i>Analytical Methods</i> , 2011, 3, 1865.	2.7	6
74	Specificity and Promiscuity in Human Glutaminase Interacting Protein Recognition: Insight from the Binding of the Internal and C-Terminal Motif. <i>Biochemistry</i> , 2012, 51, 6950-6960.	2.5	5
75	Selective detection of <i>Salmonella typhimurium</i> in the presence of high concentrations of masking bacteria. <i>Sensing and Instrumentation for Food Quality and Safety</i> , 2008, 2, 234-239.	1.5	4
76	Understanding the interactions between bone mineral crystals and their binding peptides derived from filamentous phage. <i>Materials Today Advances</i> , 2022, 15, 100263.	5.2	3
77	Chapter 4. Phage-mediated Drug Delivery. <i>RSC Nanoscience and Nanotechnology</i> , 2011, , 55-82.	0.2	2