

Mahdi Behdani

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

1,430
citations

361045

20
h-index

414034

32
g-index

103
all docs

103
docs citations

103
times ranked

1536
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation and characterization of a functional Nanobody against the vascular endothelial growth factor receptor-2; angiogenesis cell receptor. <i>Molecular Immunology</i> , 2012, 50, 35-41.	1.0	97
2	Single-Domain Antibodies or Nanobodies: A Class of Next-Generation Antibodies. <i>International Reviews of Immunology</i> , 2018, 37, 316-322.	1.5	74
3	Development of VEGFR2-specific Nanobody Pseudomonas exotoxin A conjugated to provide efficient inhibition of tumor cell growth. <i>New Biotechnology</i> , 2013, 30, 205-209.	2.4	68
4	Inhibition of angiogenesis in human endothelial cell using VEGF specific nanobody. <i>Molecular Immunology</i> , 2015, 65, 58-67.	1.0	60
5	Oral DNA vaccines based on CS-TPP nanoparticles and alginate microparticles confer high protection against infectious pancreatic necrosis virus (IPNV) infection in trout. <i>Developmental and Comparative Immunology</i> , 2017, 74, 178-189.	1.0	57
6	Albumin nanoparticles as nanocarriers for drug delivery: Focusing on antibody and nanobody delivery and albumin-based drugs. <i>Journal of Drug Delivery Science and Technology</i> , 2020, 55, 101471.	1.4	52
7	T cell engineered with a novel nanobody-based chimeric antigen receptor against VEGFR2 as a candidate for tumor immunotherapy. <i>IUBMB Life</i> , 2019, 71, 1259-1267.	1.5	45
8	The first report on transcriptome analysis of the venom gland of Iranian scorpion, <i>Hemiscorpius lepturus</i> . <i>Toxicon</i> , 2017, 125, 123-130.	0.8	37
9	VP2 (PTA motif) encoding DNA vaccine confers protection against lethal challenge with infectious pancreatic necrosis virus (IPNV) in trout. <i>Molecular Immunology</i> , 2018, 94, 61-67.	1.0	35
10	An overview on application of phage display technique in immunological studies. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2017, 7, 599-602.	0.5	34
11	Design and characterization of short hybrid antimicrobial peptides from pEM ² , mastoparan-VT ¹ , and mastoparan-B. <i>Chemical Biology and Drug Design</i> , 2017, 89, 327-338.	1.5	33
12	Nanobodies as novel therapeutic agents in envenomation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2955-2965.	1.1	30
13	Production and Characterization of Novel Camel Single Domain Antibody Targeting Mouse Vascular Endothelial Growth Factor. <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> , 2016, 35, 167-171.	0.8	28
14	Preparation and characterization of a novel nanobody against T-cell immunoglobulin and mucin-3 (TIM-3). <i>Iranian Journal of Basic Medical Sciences</i> , 2016, 19, 1201-1208.	1.0	28
15	A camelid antibody candidate for development of a therapeutic agent against <i>Hemiscorpius lepturus</i> envenomation. <i>FASEB Journal</i> , 2014, 28, 4004-4014.	0.2	26
16	Development of a mono-specific anti-VEGF bivalent nanobody with extended plasma half-life for treatment of pathologic neovascularization. <i>Drug Testing and Analysis</i> , 2020, 12, 92-100.	1.6	25
17	A nanobody-derived mimotope against VEGF inhibits cancer angiogenesis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2020, 35, 1233-1239.	2.5	25
18	Intrabody targeting vascular endothelial growth factor receptor-2 mediates downregulation of surface localization. <i>Cancer Gene Therapy</i> , 2017, 24, 33-37.	2.2	24

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19	Expression and purification of functional human vascular endothelial growth factor-a121; the most important angiogenesis factor. <i>Advanced Pharmaceutical Bulletin</i> , 2014, 4, 323-8.	0.6	24
20	Rapid and low-cost colorimetric method using 2,3,5-triphenyltetrazolium chloride for detection of multidrug-resistant <i>Mycobacterium tuberculosis</i> . <i>Journal of Medical Microbiology</i> , 2006, 55, 1657-1659.	0.7	23
21	Identification and characterization of a novel nanobody against human placental growth factor to modulate angiogenesis. <i>Molecular Immunology</i> , 2016, 78, 183-192.	1.0	22
22	Construction and expression of an anti-VEGFR2 Nanobody-Fc fusionbody in NS0 host cell. <i>Protein Expression and Purification</i> , 2016, 123, 19-25.	0.6	22
23	Anti-HER2 scFv Expression in <i>Escherichia coli</i> SHuffle®T7 Express Cells: Effects on Solubility and Biological Activity. <i>Molecular Biotechnology</i> , 2020, 62, 18-30.	1.3	22
24	Development of a novel nano-sized anti-VEGFA nanobody with enhanced physicochemical and pharmacokinetic properties. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1402-1414.	1.9	20
25	immunotherapy of lung cancer using cross-species reactive vascular endothelial growth factor nanobodies. <i>Iranian Journal of Basic Medical Sciences</i> , 2017, 20, 489-496.	1.0	19
26	Selection and Characterization of Specific Nanobody Against Human Immunoglobulin G. <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> , 2015, 34, 201-205.	0.8	18
27	Development of a recombinant camelid specific diabody against the heminecrolysin fraction of <i>Hemiscorpius lepturus</i> scorpion. <i>Toxin Reviews</i> , 2017, 36, 7-11.	1.5	18
28	An antibody fragment against human delta-like ligand-4 for inhibition of cell proliferation and neovascularization. <i>Immunopharmacology and Immunotoxicology</i> , 2018, 40, 368-374.	1.1	18
29	Isolation and characterization of nanobodies against epithelial cell adhesion molecule as novel theranostic agents for cancer therapy. <i>Molecular Immunology</i> , 2021, 129, 70-77.	1.0	18
30	Development of anti-CD47 single-chain variable fragment targeted magnetic nanoparticles for treatment of human bladder cancer. <i>Nanomedicine</i> , 2017, 12, 597-613.	1.7	17
31	Sindbis Virus-Pseudotyped Lentiviral Vectors Carrying VEGFR2-Specific Nanobody for Potential Transductional Targeting of Tumor Vasculature. <i>Molecular Biotechnology</i> , 2016, 58, 738-747.	1.3	16
32	Expression of VGRNb-PE immunotoxin in transplastomic lettuce (<i>Lactuca sativa</i> L.). <i>Plant Molecular Biology</i> , 2018, 97, 103-112.	2.0	16
33	Generation and characterization of an anti-delta like ligand-4 Nanobody to induce non-productive angiogenesis. <i>Analytical Biochemistry</i> , 2018, 544, 34-41.	1.1	16
34	Design of a humanized anti vascular endothelial growth factor nanobody and evaluation of its function. <i>Iranian Journal of Basic Medical Sciences</i> , 2018, 21, 260-266.	1.0	16
35	Development of protective agent against <i>Hottentotta saulcyi</i> venom using camelid single-domain antibody. <i>Molecular Immunology</i> , 2015, 68, 412-420.	1.0	15
36	Oligoclonal selection of nanobodies targeting vascular endothelial growth factor. <i>Journal of Immunotoxicology</i> , 2019, 16, 34-42.	0.9	15

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37	Characteristics and Lethality of a Novel Recombinant Dermonecrotic Venom Phospholipase from Hemiscorpius lepturus. <i>Toxins</i> , 2017, 9, 102.	1.5	14
38	Recombinant expression and purification of human placental growth factor 1 and specific camel heavy chain polyclonal antibody preparation. <i>Saudi Journal of Biological Sciences</i> , 2014, 21, 35-39.	1.8	12
39	Identification of the immunogenic epitopes of the whole venom component of the Hemiscorpius lepturus scorpion using the phage display peptide library. <i>Toxicon</i> , 2016, 124, 83-93.	0.8	12
40	Camelid antivenom development and potential in vivo neutralization of Hottentotta saulcyi scorpion venom. <i>Toxicon</i> , 2016, 113, 70-75.	0.8	12
41	Development and characterization of a camelid single domain antibody directed to human CD22 biomarker. <i>Biotechnology and Applied Biochemistry</i> , 2018, 65, 718-725.	1.4	12
42	Genotoxicity assessment of antiepileptic drugs (AEDs) in human embryonic stem cells. <i>Epilepsy Research</i> , 2019, 158, 106232.	0.8	12
43	Nanobodies as powerful pulmonary targeted biotherapeutics against SARS-CoV-2, pharmaceutical point of view. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129974.	1.1	12
44	Liposomal delivery of vascular endothelial growth factor/receptors and their inhibitors. <i>Journal of Drug Targeting</i> , 2020, 28, 379-385.	2.1	11
45	Selection and characterization of specific nanobody against neuropilin-1 for inhibition of angiogenesis. <i>Molecular Immunology</i> , 2020, 128, 56-63.	1.0	11
46	Development of a novel engineered antibody targeting human CD123. <i>Analytical Biochemistry</i> , 2016, 511, 27-30.	1.1	10
47	Development of a human scFv antibody targeting the lethal Iranian cobra (Naja oxiana) snake venom. <i>Toxicon</i> , 2019, 171, 78-85.	0.8	10
48	Protective responses of an engineered PspA recombinant antigen against Streptococcus pneumoniae. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019, 24, e00385.	2.1	10
49	Development and characterization of human single chain antibody against Iranian Macrovipera lebetina snake venom. <i>Toxicon</i> , 2021, 197, 106-113.	0.8	10
50	Human IL-2R ϵ subunit binding modulation of IL-2 through a decline in electrostatic interactions: A computational and experimental approach. <i>PLoS ONE</i> , 2022, 17, e0264353.	1.1	9
51	Expression, purification, and characterization of a diabody against the most important angiogenesis cell receptor: Vascular endothelial growth factor receptor 2. <i>Advanced Biomedical Research</i> , 2012, 1, 34.	0.2	8
52	Cloning, Expression and One-Step Purification of a Novel IP-10-(anti-HER2 scFv) Fusion Protein in Escherichia coli. <i>International Journal of Peptide Research and Therapeutics</i> , 2021, 27, 433-446.	0.9	8
53	Antigenic assessment of a recombinant human CD90 protein expressed in prokaryotic expression system. <i>Protein Expression and Purification</i> , 2015, 116, 139-143.	0.6	7
54	Recombinant expression and purification of functional vascular endothelial growth factor-121 in the baculovirus expression system. <i>Asian Pacific Journal of Tropical Medicine</i> , 2016, 9, 1195-1199.	0.4	7

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55	Developing recombinant phospholipase D1 (rPLD1) toxoid from Iranian Hemiscorpius lepturus scorpion and its protective effects in BALB/c mice. <i>Toxicol</i> , 2018, 152, 30-36.	0.8	7
56	Generation and Characterization of a Functional Nanobody Against Inflammatory Chemokine CXCL10, as a Novel Strategy for the Treatment of Multiple Sclerosis. <i>CNS and Neurological Disorders - Drug Targets</i> , 2019, 18, 141-148.	0.8	7
57	Modified PO-PO hybrid method for scattering of 2D ship model on the rough sea surface. <i>IET Microwaves, Antennas and Propagation</i> , 2019, 13, 156-162.	0.7	6
58	Targeted therapy of angiogenesis using anti-VEGFR2 and anti-NRP-1 nanobodies. <i>Cancer Chemotherapy and Pharmacology</i> , 2022, 89, 165-172.	1.1	6
59	Inhibition of neovascularisation in human endothelial cells using anti NRP-1 nanobody fused to truncated form of diphtheria toxin as a novel immunotoxin. <i>Immunopharmacology and Immunotoxicology</i> , 2021, 43, 230-238.	1.1	5
60	In Vitro Evaluation of Vegf-Pseudomonas Exotoxin: A Conjugated on Tumor Cells. <i>Advanced Biomedical Research</i> , 2017, 6, 144.	0.2	5
61	A Model to Study the Phenotypic Changes of Insect Cell Transfection by Copepod Super Green Fluorescent Protein (cop-GFP) in Baculovirus Expression System. <i>Iranian Biomedical Journal</i> , 2016, 20, 182-6.	0.4	5
62	Electromagnetic scattering from a pec target over a random rough sea surface using hybrid KA-PO-PTD method. , 2017, , .		4
63	Transient expression of anti-VEGFR2 nanobody in <i>Nicotiana tabacum</i> and <i>N. benthamiana</i> . <i>3 Biotech</i> , 2018, 8, 484.	1.1	4
64	combination therapy of pathologic angiogenesis using anti-vascular endothelial growth factor and anti-neuropilin-1 nanobodies. <i>Iranian Journal of Basic Medical Sciences</i> , 2020, 23, 1335-1339.	1.0	4
65	Functional recombinant extra membrane loop of human CD20, an alternative of the full length CD20 antigen. <i>Iranian Biomedical Journal</i> , 2012, 16, 121-6.	0.4	4
66	Immunological evaluation of predicted linear B-cell epitopes of human CD20 antigen. <i>Biotechnology and Applied Biochemistry</i> , 2012, 59, 186-192.	1.4	3
67	Development and Characterization of a New Antipeptide Monoclonal Antibody Directed to Human CD20 Antigen. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2015, 30, 310-316.	0.7	3
68	Evaluation of Laboratory Application of Camelid Sera Containing Heavy-Chain Polyclonal Antibody Against Recombinant Cytotoxic T-Lymphocyte-Associated Protein-4. <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> , 2019, 38, 235-241.	0.8	3
69	Recombinant Expression of Zinc Transporter SLC39A6 and Its Functional Antibody Production. <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> , 2019, 38, 70-74.	0.8	3
70	Production of Novel Camelid Anti-CXCL10 Specific Polyclonal Antibodies and Evaluation of Their Bioreactivity. <i>International Journal of Peptide Research and Therapeutics</i> , 2019, 25, 535-540.	0.9	3
71	Optimization of Anti-CXCL10 Nanobody Expression Using Response Surface Methodology and Evaluation of its Anti-metastatic Effect on Breast Cancer cells. <i>International Journal of Peptide Research and Therapeutics</i> , 2020, 26, 1399-1407.	0.9	3
72	Designing and Development of a Tandem Bivalent Nanobody against VEGF165. <i>Avicenna Journal of Medical Biotechnology</i> , 2021, 13, 58-64.	0.2	3

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73	<i>In Vivo</i> Tumor Therapy with Novel Immunotoxin Containing Programmed Cell Death Protein-1 and Diphtheria Toxin. <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> , 2021, 40, 113-117.	0.8	3
74	Stimulation of Camel Polyclonal Antibody against Human T cell Immunoglobulin and Mucin 3. <i>Iranian Journal of Biotechnology</i> , 2017, 15, 166-171.	0.3	3
75	Expression and purification of truncated diphtheria toxin, DT386, in <i>Escherichia coli</i> : An attempt for production of a new vaccine against diphtheria. <i>Research in Pharmaceutical Sciences</i> , 2016, 11, 428.	0.6	3
76	Efficacy and antitumor activity of a mutant type of interleukin 2. <i>Scientific Reports</i> , 2022, 12, 5376.	1.6	3
77	Production and Conjugation of Truncated Recombinant Diphtheria Toxin to VEGFR-2 Specific Nanobody and Evaluation of its Cytotoxic Effect on PC-3 Cell Line. <i>Molecular Biotechnology</i> , 2022, 64, 1218-1226.	1.3	3
78	Camel Heavy Chain Polyclonal Antibody Raised Against Recombinant Murine Placental Growth Factor Expressed in <i>Escherichia coli</i> . <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> , 2015, 34, 126-130.	0.8	2
79	Electromagnetic scattering from a PEC target buried beneath a rough surface using KA-PO method. , 2016, , .		2
80	Datasets of a novel bivalent single chain antibody constructed by overlapping oligonucleotide annealing method targeting human CD123. <i>Data in Brief</i> , 2016, 8, 1137-1143.	0.5	2
81	Functional Study of a Camelid Single Domain Anti-CD22 Antibody. <i>International Journal of Peptide Research and Therapeutics</i> , 2020, 26, 633-639.	0.9	2
82	Phylogenetic analysis of metalloprotease from transcriptome of venom gland of <i>Hemiscorpius lepturus</i> . <i>Archives of Biotechnology and Biomedicine</i> , 2019, 3, 006-010.	0.1	2
83	Angiogenic biomolecules specific nanobodies application in cancer imaging and therapy; review and updates. <i>International Immunopharmacology</i> , 2022, 105, 108585.	1.7	2
84	Apoplasmic Production of Recombinant Anti-VEGF Protein Using Plant-Virus Transient Expression Vector. <i>Molecular Biotechnology</i> , 2022, , 1.	1.3	2
85	Anti-VEGFR2 nanobody expression in lettuce using an infectious Turnip mosaic virus vector. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2017, 27, 167.	0.9	1
86	Enhanced expression and purification of anti-VEGF nanobody in cucurbit plants. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2019, 28, 263-270.	0.9	1
87	Linear mimotope analysis of Iranian cobra (<i>Naja oxiana</i>) snake venom using peptide displayed phage library. <i>Toxin Reviews</i> , 2019, 38, 106-114.	1.5	1
88	Complete neutralization of the lethality of <i>Hemiscorpius lepturus</i> crude venom by a novel anti-recombinant phospholipase D1 IgGs. <i>Toxicon</i> , 2020, 183, 36-43.	0.8	1
89	Design and Analysis of a Wideband CPW-Fed Circularly-Polarized Antenna. , 2020, , .		1
90	Cell-specific targeting by engineered M13 bacteriophage expressing VEGFR2 nanobody. <i>Iranian Journal of Basic Medical Sciences</i> , 2018, 21, 884-888.	1.0	1

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91	Development of a novel in vitro assay for the evaluation of integron DNA integrase activity. <i>Biotechnology and Biotechnological Equipment</i> , 2016, 30, 585-591.	0.5	0
92	A novel toxoid phospholipase D1 from Iranian <i>Hemiscorpius lepturus</i> scorpion and immunogenicity studies in BALB/c mice. <i>Toxicon</i> , 2019, 159, S22-S23.	0.8	0
93	Evaluation of Sensitivity of Molecular Methods for Detection of Rifampin-Resistant Strains Amongst Drug-resistant <i>Mycobacterium tuberculosis</i> Isolates. <i>Archives of Pediatric Infectious Diseases</i> , 2016, inpress, .	0.1	0
94	Cytotoxicity Assessment and Apoptosis-related Gene Profiling of Antibody Treated Acute Myeloid Leukemia (AML) and Acute Lymphocytic Leukemia (ALL) Cancerous Cell Lines. <i>Iranian Journal of Allergy, Asthma and Immunology</i> , 2019, 18, 679-687.	0.3	0
95	A comparative study on the equine and camelid antivenoms upon cardiovascular changes induced with venom in rats. <i>Iranian Journal of Basic Medical Sciences</i> , 2019, 22, 1440-1444.	1.0	0
96	Expressing of Recombinant VEGFR2-specific Nanobody in Baculovirus Expression System. <i>Iranian Journal of Biotechnology</i> , 2021, 19, e2783.	0.3	0
97	Developing and characterizing a single-domain antibody (nanobody) against human cytotoxic T-lymphocyte-associated protein 4 (hCTLA-4).. <i>Iranian Journal of Basic Medical Sciences</i> , 2021, 24, 1264-1271.	1.0	0
98	Development of camelid monoclonal nanobody against SLC39A6 zinc transporter protein.. <i>Iranian Journal of Basic Medical Sciences</i> , 2021, 24, 1726-1733.	1.0	0