Chi-Shiun Chiang

List of Publications by Year
in descending order

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118 papers	6,144 citations	81839 39 h-index	71651 76 g-index
122 all docs	122 docs citations	122 times ranked	9190 citing authors

#	Article	IF	Citations
1	Rabies Virus Glycoprotein-Mediated Transportation and T Cell Infiltration to Brain Tumor by Magnetoelectric Gold Yarnballs. ACS Nano, 2022, 16, 4014-4027.	7.3	10
2	Conquering multidrug resistant lung cancer by upconversion <scp>nanoparticlesâ€mediated</scp> photodynamic therapy and gene silencing. Journal of the Chinese Chemical Society, 2022, 69, 1305-1317.	0.8	1
3	Salt-mediated, plasmonic field-field/field-lattice coupling-enhanced NIR-II photodynamic therapy using core-gap-shell gold nanopeanuts. Nanoscale Horizons, 2022, 7, 589-606.	4.1	8
4	Role of Myeloid-Derived Suppressor Cells in High-Dose-Irradiated TRAMP-C1 Tumors: A Therapeutic Target and an Index for Assessing Tumor Microenvironment. International Journal of Radiation Oncology Biology Physics, 2021, 109, 1547-1558.	0.4	10
5	Marginative Delivery-Mediated Extracellular Leakiness and T Cell Infiltration in Lung Metastasis by a Biomimetic Nanoraspberry. Nano Letters, 2021, 21, 1375-1383.	4.5	22
6	Ablative Radiotherapy Reprograms the Tumor Microenvironment of a Pancreatic Tumor in Favoring the Immune Checkpoint Blockade Therapy. International Journal of Molecular Sciences, 2021, 22, 2091.	1.8	13
7	A Noninvasive Gutâ€toâ€Brain Oral Drug Delivery System for Treating Brain Tumors. Advanced Materials, 2021, 33, e2100701.	11.1	38
8	Multifunctional CuO/Cu₂O Truncated Nanocubes as Trimodal Image-Guided Near-Infrared-III Photothermal Agents to Combat Multi-Drug-Resistant Lung Carcinoma. ACS Nano, 2021, 15, 14404-14418.	7.3	31
9	Local Interleukin-12 Treatment Enhances the Efficacy of Radiation Therapy by Overcoming Radiation-Induced Immune Suppression. International Journal of Molecular Sciences, 2021, 22, 10053.	1.8	3
10	Polymer-Coated Nanoparticles for Therapeutic and Diagnostic Non-10B Enriched Polymer-Coated Boron Carbon Oxynitride (BCNO) Nanoparticles as Potent BNCT Drug. Nanomaterials, 2021, 11, 2936.	1.9	11
11	Distinct Role of CD11b+Ly6Gâ^'Ly6Câ^' Myeloid-Derived Cells on the Progression of the Primary Tumor and Therapy-Associated Recurrent Brain Tumor. Cells, 2020, 9, 51.	1.8	9
12	Photodynamic Therapy: Unprecedented Theranostic LaB₆ Nanocubesâ€Mediated NIRâ€IIb Photodynamic Therapy to Conquer Hypoxiaâ€Induced Chemoresistance (Adv. Funct. Mater. 36/2020). Advanced Functional Materials, 2020, 30, 2070246.	7.8	1
13	Sunitinib Treatment-elicited Distinct Tumor Microenvironment Dramatically Compensated the Reduction of Myeloid-derived Suppressor Cells. In Vivo, 2020, 34, 1141-1152.	0.6	6
14	Unprecedented Theranostic LaB 6 Nanocubesâ€Mediated NIRâ€IIb Photodynamic Therapy to Conquer Hypoxiaâ€Induced Chemoresistance. Advanced Functional Materials, 2020, 30, 2002940.	7.8	16
15	Rabies virus glycoprotein-amplified hierarchical targeted hybrids capable of magneto-electric penetration delivery to orthotopic brain tumor. Journal of Controlled Release, 2020, 321, 159-173.	4.8	23
16	Size and Shape Effects of Nearâ€Infrared Lightâ€Activatable Cu₂(OH)PO₄ Nanostructures on Phototherapeutic Destruction of Drugâ€Resistant Hypoxia Tumors. Particle and Particle Systems Characterization, 2020, 37, 2000001.	1.2	5
17	Distinct Tumor Microenvironment at Tumor Edge as a Result of Astrocyte Activation Is Associated With Therapeutic Resistance for Brain Tumor. Frontiers in Oncology, 2019, 9, 307.	1.3	19
18	Human Peripheral Blood Eosinophils Express High Levels of the Purinergic Receptor P2X4. Frontiers in Immunology, 2019, 10, 2074.	2.2	12

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19	Sigma-2 receptor/TMEM97 agonist PB221 as an alternative drug for brain tumor. BMC Cancer, 2019, 19, 473.	1.1	23
20	Magnetic ternary nanohybrids for nonviral gene delivery of stem cells and applications on cancer therapy. Theranostics, 2019, 9, 2411-2423.	4.6	38
21	Graphene Quantum Dots-Mediated Theranostic Penetrative Delivery of Drug and Photolytics in Deep Tumors by Targeted Biomimetic Nanosponges. Nano Letters, 2019, 19, 69-81.	4.5	110
22	Bioprosthesis of Coreâ€“Shell Gold Nanorod/Serum Albumin Nanoimitation: A Half-Native and Half-Artificial Nanohybrid for Cancer Theranostics. Chemistry of Materials, 2018, 30, 729-747.	3.2	18
23	Lauryl Gallate Induces Apoptotic Cell Death through Caspase-dependent Pathway in U87 Human Glioblastoma CellsIn Vitro. In Vivo, 2018, 32, 1119-1127.	0.6	5
24	Graphene oxide sensitizes cancer cells to chemotherapeutics by inducing early autophagy events, promoting nuclear trafficking and necrosis. Theranostics, 2018, 8, 2477-2487.	4.6	45
25	Radiotherapy-Controllable Chemotherapy from Reactive Oxygen Species-Responsive Polymeric Nanoparticles for Effective Local Dual Modality Treatment of Malignant Tumors. Biomacromolecules, 2018, 19, 3825-3839.	2.6	22
26	Unexpected dose response of HaCaT to UVB irradiation. In Vitro Cellular and Developmental Biology - Animal, 2018, 54, 589-599.	0.7	2
27	Hierarchically Targeted and Penetrated Delivery of Drugs to Tumors by Sizeâ€Changeable Graphene Quantum Dot Nanoaircrafts for Photolytic Therapy. Advanced Functional Materials, 2017, 27, 1700056.	7.8	89
28	Angiogenesis-targeting microbubbles combined with ultrasound-mediated gene therapy in brain tumors. Journal of Controlled Release, 2017, 255, 164-175.	4.8	64
29	Engineering Novel Targeted Boronâ€10â€Enriched Theranostic Nanomedicine to Combat against Murine Brain Tumors via MR Imagingâ€Guided Boron Neutron Capture Therapy. Advanced Materials, 2017, 29, 1700850.	11.1	89
30	Tumortropic adipose-derived stem cells carrying smart nanotherapeutics for targeted delivery and dual-modality therapy of orthotopic glioblastoma. Journal of Controlled Release, 2017, 254, 119-130.	4.8	67
31	Gadolinium-doped iron oxide nanoparticles induced magnetic field hyperthermia combined with radiotherapy increases tumour response by vascular disruption and improved oxygenation. International Journal of Hyperthermia, 2017, 33, 1-9.	1.1	14
32	Dual roles of tumour cells-derived matrix metalloproteinase 2 on brain tumour growth and invasion. British Journal of Cancer, 2017, 117, 1828-1836.	2.9	35
33	Albumin-Gold Nanorod Nanoplatform for Cell-Mediated Tumoritropic Delivery with Homogenous ChemoDrug Distribution and Enhanced Retention Ability. Theranostics, 2017, 7, 3034-3052.	4.6	22
34	The Paradoxical Effects of Different Hepatitis C Viral Loads on Host DNA Damage and Repair Abilities. PLoS ONE, 2017, 12, e0164281.	1.1	7
35	Challenges of Using High-Dose Fractionation Radiotherapy in Combination Therapy. Frontiers in Oncology, 2016, 6, 165.	1.3	9
36	Dualâ€Targeted Photopenetrative Delivery of Multiple Micelles/Hydrophobic Drugs by a Nanopea for Enhanced Tumor Therapy. Advanced Functional Materials, 2016, 26, 4169-4179.	7.8	17

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37	Nano-graphene oxide-mediated InÂvivo fluorescence imaging and bimodal photodynamic and photothermal destruction of tumors. Biomaterials, 2016, 95, 1-10.	5.7	182
38	Unprecedented â€œAllâ€inâ€Oneâ€•Lanthanideâ€Doped Mesoporous Silica Frameworks for Fluorescence/MR Imaging and Combination of NIR Light Triggered Chemoâ€Photodynamic Therapy of Tumors. Advanced Functional Materials, 2016, 26, 7908-7920.	7.8	56
39	The Penetrated Delivery of Drug and Energy to Tumors by Lipo-Graphene Nanosponges for Photolytic Therapy. ACS Nano, 2016, 10, 9420-9433.	7.3	53
40	Multiâ€Branched Plasmonic Gold Nanoechinusâ€Based Triple Modal Bioimaging: An Efficient NIRâ€toâ€NIR Up and Downâ€Conversion Emission and Photoacoustic Imaging. Advanced Materials Technologies, 2016, 1, 1600107.	3.0	12
41	Decline of Tumor Vascular Function as AssessedÂby Dynamic Contrast-Enhanced Magnetic Resonance Imaging Is Associated WithÂPoor Responses to Radiation Therapy andÂChemotherapy. International Journal of Radiation Oncology Biology Physics, 2016, 95, 1495-1503.	0.4	7
42	Nucleusâ€Targeting Gold Nanoclusters for Simultaneous In Vivo Fluorescence Imaging, Gene Delivery, and NIRâ€Light Activated Photodynamic Therapy. Advanced Functional Materials, 2015, 25, 5934-5945.	7.8	174
43	Complete destruction of deep-tissue buried tumors via combination of gene silencing and gold nanoechinus-mediated photodynamic therapy. Biomaterials, 2015, 62, 13-23.	5.7	45
44	Preparation, cytotoxicity and in vivo bioimaging of highly luminescent water-soluble silicon quantum dots. Nanotechnology, 2015, 26, 215703.	1.3	25
45	Tumortropic monocyte-mediated delivery of echogenic polymer bubbles and therapeutic vesicles for chemotherapy of tumor hypoxia. Biomaterials, 2015, 71, 71-83.	5.7	92
46	Cancer Therapy: Nucleus-Targeting Gold Nanoclusters for Simultaneous In Vivo Fluorescence Imaging, Gene Delivery, and NIR-Light Activated Photodynamic Therapy (Adv. Funct. Mater. 37/2015). Advanced Functional Materials, 2015, 25, 5933-5933.	7.8	3
47	Monocytic delivery of therapeutic oxygen bubbles for dual-modality treatment of tumor hypoxia. Journal of Controlled Release, 2015, 220, 738-750.	4.8	57
48	Graphene oxide as a chemosensitizer: Diverted autophagic flux, enhanced nuclear import, elevated necrosis and improved antitumor effects. Biomaterials, 2015, 40, 12-22.	5.7	85
49	Irradiation Enhances the Ability of Monocytes as Nanoparticle Carrier for Cancer Therapy. PLoS ONE, 2015, 10, e0139043.	1.1	10
50	Extremely Low-Frequency Electromagnetic Fields Cause G1 Phase Arrest through the Activation of the ATM-Chk2-p21 Pathway. PLoS ONE, 2014, 9, e104732.	1.1	31
51	Phototherapy: Designing Multi-Branched Gold Nanoechinus for NIR Light Activated Dual Modal Photodynamic and Photothermal Therapy in the Second Biological Window (Adv. Mater. 39/2014). Advanced Materials, 2014, 26, 6688-6688.	11.1	0
52	Designing Multiâ€Branched Gold Nanoechinus for NIR Light Activated Dual Modal Photodynamic and Photothermal Therapy in the Second Biological Window. Advanced Materials, 2014, 26, 6689-6695.	11.1	341
53	Gold nanoshells-mediated bimodal photodynamic and photothermal cancer treatment using ultra-low doses of near infra-red light. Biomaterials, 2014, 35, 5527-5538.	5.7	214
54	Effects of surface functionality of carbon nanomaterials on short-term cytotoxicity and embryonic development in zebrafish. Journal of Materials Chemistry B, 2014, 2, 1038-1047.	2.9	12

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55	A general strategy to achieve ultra-high gene transfection efficiency using lipid-nanoparticle composites. Biomaterials, 2014, 35, 8261-8272.	5.7	15
56	First Demonstration of Gold Nanorodsâ€Mediated Photodynamic Therapeutic Destruction of Tumors via Near Infraâ€Red Light Activation. Small, 2014, 10, 1612-1622.	5.2	200
57	Effects of pre-irradiation and SDF-1 suppression on the progression of murine astrocytoma cells grown in different stromal beds. International Journal of Radiation Biology, 2014, 90, 1162-1168.	1.0	1
58	99mTc Pyrene Derivative Complex Causes Double-Strand Breaks in dsDNA Mainly through Cluster-Mediated Indirect Effect in Aqueous Solution. PLoS ONE, 2014, 9, e108162.	1.1	5
59	Abstract 3945: Inhibition of MMP2 expression enhances the efficacy of radiation therapy for a murine astrocytoma. , 2014, , .		0
60	Morphology dependent photosensitization and formation of singlet oxygen (1Î”g) by gold and silver nanoparticles and its application in cancer treatment. Journal of Materials Chemistry B, 2013, 1, 4379.	2.9	88
61	A Preclinical Study to Explore Vasculature Differences Between Primary and Recurrent Tumors Using Ultrasound Doppler Imaging. Ultrasound in Medicine and Biology, 2013, 39, 860-869.	0.7	11
62	Combination of Vessel-Targeting Agents and Fractionated Radiation Therapy: The Role of the SDF-1/CXCR4 Pathway. International Journal of Radiation Oncology Biology Physics, 2013, 86, 777-784.	0.4	34
63	Photosensitization of Singlet Oxygen and Inâ€...Vivo Photodynamic Therapeutic Effects Mediated by PEGylated W₁₈O₄₉ Nanowires. Angewandte Chemie - International Edition, 2013, 52, 12332-12336.	7.2	148
64	Radiation Therapy-Induced Tumor Invasiveness Is Associated with SDF-1-Regulated Macrophage Mobilization and Vasculogenesis. PLoS ONE, 2013, 8, e69182.	1.1	89
65	The Roles of Macrophages and Nitric Oxide in Interleukin-3-Enhanced HSV-Sr39tk-Mediated Prodrug Therapy. PLoS ONE, 2013, 8, e56508.	1.1	7
66	Comparative Transcriptome Profiling of an SV40-Transformed Human Fibroblast (MRC5CVI) and Its Untransformed Counterpart (MRC-5) in Response to UVB Irradiation. PLoS ONE, 2013, 8, e73311.	1.1	5
67	Tumor-secreted SDF-1 promotes glioma invasiveness and TAM tropism toward hypoxia in a murine astrocytoma model. Laboratory Investigation, 2012, 92, 151-162.	1.7	145
68	Characterization of tumor vasculature distributions in central and peripheral regions based on Doppler ultrasound. Medical Physics, 2012, 39, 7490-7498.	1.6	8
69	Study of [18F]FLT and [123I]IaraU for cellular imaging in HSV1 tk-transfected murine fibrosarcoma cells: evaluation of the tracer uptake using 5-fluoro, 5-iodo and 5-iodovinyl arabinosyl uridines as competitive probes. Nuclear Medicine and Biology, 2012, 39, 371-376.	0.3	3
70	Irradiation Promotes an M2 Macrophage Phenotype in Tumor Hypoxia. Frontiers in Oncology, 2012, 2, 89.	1.3	154
71	Development of the hybrid Sleeping Beauty-baculovirus vector for sustained gene expression and cancer therapy. Gene Therapy, 2012, 19, 844-851.	2.3	47
72	The in vivo biodistribution and fate of CdSe quantum dots in the murine model: a laser ablation inductively coupled plasma mass spectrometry study. Analytical and Bioanalytical Chemistry, 2012, 404, 3025-3036.	1.9	28

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73	Gene Expression Profiling of Dendritic Cells in Different Physiological Stages under Cordyceps sinensis Treatment. PLoS ONE, 2012, 7, e40824.	1.1	8
74	In vivo imaging of radiation-induced tissue apoptosis by 99mTc(I)-his6-annexin A5. Annals of Nuclear Medicine, 2012, 26, 272-280.	1.2	2
75	Inactivation of ataxia telangiectasia mutated gene can increase intracellular reactive oxygen species levels and alter radiation-induced cell death pathways in human glioma cells. International Journal of Radiation Biology, 2011, 87, 432-442.	1.0	12
76	Nano-scaled pH-responsive polymeric vesicles for intracellular release of doxorubicin. Journal of Drug Targeting, 2011, 19, 944-953.	2.1	28
77	Honokiol inhibits LPSâ€induced maturation and inflammatory response of human monocyteâ€derived dendritic cells. Journal of Cellular Physiology, 2011, 226, 2338-2349.	2.0	44
78	Vasculatures in Tumors Growing From Preirradiated Tissues: Formed by Vasculogenesis and Resistant to Radiation and Antiangiogenic Therapy. International Journal of Radiation Oncology Biology Physics, 2011, 80, 1512-1521.	0.4	23
79	Assessment of tumor vasculature for diagnostic and therapeutic applications in a mouse model in vivo using 25-MHz power Doppler imaging. Ultrasonics, 2011, 51, 925-931.	2.1	18
80	Baculovirus vectors for antiangiogenesis-based cancer gene therapy. Cancer Gene Therapy, 2011, 18, 637-645.	2.2	34
81	Characterize the vasculatures distribution of murine tumors between center and peripheral regions based on doppler ultrasound and immunofluorescent analysis. , 2011, , .		0
82	Repeated Small Perturbation Approach Reveals Transcriptomic Steady States. PLoS ONE, 2011, 6, e29241.	1.1	7
83	Neutron capture nuclei-containing carbon nanoparticles for destruction of cancer cells. Biomaterials, 2010, 31, 8419-8425.	5.7	34
84	Characterization of tumor vasculature derived from angiogenesis and vasculogenesis by high-frequency three-dimensional Doppler ultrasound. , 2010, , .		1
85	Radiotherapy Decreases Vascular Density and Causes Hypoxia with Macrophage Aggregation in TRAMP-C1 Prostate Tumors. Clinical Cancer Research, 2009, 15, 1721-1729.	3.2	117
86	Determining the Zeroâ€Force Binding Energetics of an Intercalated DNA Complex by a Singleâ€Molecule Approach. ChemPhysChem, 2009, 10, 2791-2794.	1.0	12
87	Two-sided effect ofCordyceps sinensison dendritic cells in different physiological stages. Journal of Leukocyte Biology, 2009, 85, 987-995.	1.5	27
88	UVB Radiation Induces Persistent Activation of Ribosome and Oxidative Phosphorylation Pathways. Radiation Research, 2009, 171, 716.	0.7	17
89	Cordyceps sinensis Health Supplement Enhances Recovery from Taxol-Induced Leukopenia. Experimental Biology and Medicine, 2008, 233, 447-455.	1.1	18
90	Preparation of Fluorescent Magnetic Nanodiamonds and Cellular Imaging. Journal of the American Chemical Society, 2008, 130, 15476-15481.	6.6	132

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91	Functional phenotype of macrophages depends on assay procedures. International Immunology, 2008, 20, 215-222.	1.8	36
92	Comparison of Bioactivities of 5-Fluoro, 5-Iodo, 5-Iodovinyl, and 5-Fluorovinyl Arabinosyl Uridines against SR-39 TK-Transfected Murine Prostate Cancer Cells. Chemical and Pharmaceutical Bulletin, 2008, 56, 109-111.	0.6	5
93	Macrophages From Irradiated Tumors Express Higher Levels of iNOS, Arginase-I and COX-2, and Promote Tumor Growth. International Journal of Radiation Oncology Biology Physics, 2007, 68, 499-507.	0.4	206
94	Protection against Radiation-Induced Bone Marrow and Intestinal Injuries by Cordyceps sinensis, a Chinese Herbal Medicine. Radiation Research, 2006, 166, 900-907.	0.7	42
95	Tetracycline-regulated intratumoral expression of interleukin-3 enhances the efficacy of radiation therapy for murine prostate cancer. Cancer Gene Therapy, 2006, 13, 1082-1092.	2.2	16
96	Compartmental responses after thoracic irradiation of mice: Strain differences. International Journal of Radiation Oncology Biology Physics, 2005, 62, 862-871.	0.4	96
97	Co-expression of interleukin-2 to increase the efficacy of DNA vaccine-mediated protection in coxsackievirus B3-infected mice. Antiviral Research, 2004, 64, 131-136.	1.9	11
98	A Sense of Danger from Radiation1. Radiation Research, 2004, 162, 1-19.	0.7	306
99	Bronchoalveolar lavage and interstitial cells have different roles in radiation-induced lung injury. International Journal of Radiation Biology, 2003, 79, 159-167.	1.0	62
100	Can short-term administration of dexamethasone abrogate radiation-induced acute cytokine gene response in lung and modify subsequent molecular responses?. International Journal of Radiation Oncology Biology Physics, 2001, 51, 296-303.	0.4	33
101	Combining radiation therapy with interleukin-3 gene immunotherapy. Cancer Gene Therapy, 2000, 7, 1172-1178.	2.2	37
102	Rapid induction of cytokine gene expression in the lung after single and fractionated doses of radiation. International Journal of Radiation Biology, 1999, 75, 1421-1427.	1.0	151
103	Response of Glia, Mast Cells and the Blood Brain Barrier, in Transgenic Mice Expressing Interleukinâ€3 in Astrocytes, an Experimental Model for CNS Demyelination. Brain Pathology, 1999, 9, 219-235.	2.1	34
104	Delayed molecular responses to brain irradiation. International Journal of Radiation Biology, 1997, 72, 45-53.	1.0	153
105	Induction of c-fos and junB mRNA following in vivo brain irradiation. Molecular Brain Research, 1997, 48, 223-228.	2.5	28
106	Behavioral and Neurophysiological Effects of CNS Expression of Cytokines in Transgenic Mice. Advances in Experimental Medicine and Biology, 1996, 402, 199-205.	0.8	8
107	Macrophage/microglial-mediated primary demyelination and motor disease induced by the central nervous system production of interleukin-3 in transgenic mice.. Journal of Clinical Investigation, 1996, 97, 1512-1524.	3.9	101
108	Induction of acute phase gene expression by brain irradiation. International Journal of Radiation Oncology Biology Physics, 1995, 33, 619-626.	0.4	314

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109	Reply to Leith. International Journal of Radiation Oncology Biology Physics, 1995, 31, 690.	0.4	0
110	Cytokine Involvement in Central Nervous System Disease.. Annals of the New York Academy of Sciences, 1995, 771, 301-312.	1.8	19
111	Modification of Tumor Microenvironment by Cytokine Gene Transfer. Acta OncolÃ³gica, 1995, 34, 447-451.	0.8	15
112	G 2 /M-Phase Arrest and Release in Ataxia Telangiectasia and Normal Cells after Exposure to Ionizing Radiation. Radiation Research, 1994, 140, 17.	0.7	24
113	Reactive Gliosis as a Consequence of Interleukin-6 Expression in the Brain: Studies in Transgenic Mice. Developmental Neuroscience, 1994, 16, 212-221.	1.0	223
114	Late effects of radiation on the lumbar spinal cord of guinea pigs: Re-treatment tolerance. International Journal of Radiation Oncology Biology Physics, 1993, 26, 643-648.	0.4	47
115	Radiation-induced astrocytic and microglial responses in mouse brain. Radiotherapy and Oncology, 1993, 29, 60-68.	0.3	169
116	Myelin-associated changes in mouse brain following irradiation. Radiotherapy and Oncology, 1993, 27, 229-236.	0.3	38
117	Alteration in myelin-associated proteins following spinal cord irradiation in guinea pigs. International Journal of Radiation Oncology Biology Physics, 1992, 24, 929-937.	0.4	25
118	Radiation enhances tumor necrosis factor Î± production by murine brain cells. Brain Research, 1991, 566, 265-269.	1.1	97