

# CITATION REPORT

List of articles citing

Nanoparticle-based detection in cerebral spinal fluid of a soluble pathogenic biomarker for Alzheimer's disease

DOI: 10.1073/pnas.0409336102

Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2273-6.

**Source:** <https://exaly.com/paper-pdf/39195101/citation-report.pdf>

**Version:** 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
741	Nanomedicine: a new paradigm in diagnosis and therapy. <b>2005</b> ,		1
740	Nanotechnology, nanomedicine, and the development of new, effective therapies for cancer. <b>2005</b> , 1, 101-9		248
739	Imaging amyloid beta peptide oligomeric particles in solution. <b>2005</b> , 13, 5213-7		14
738	Nanostructures in biodiagnostics. <b>2005</b> , 105, 1547-62		4122
737	Globular amyloid beta-peptide oligomer - a homogenous and stable neuropathological protein in Alzheimer's disease. <b>2005</b> , 95, 834-47		467
736	Research Highlights. <b>2005</b> , 23, 311-311		1
735	Genetically engineered livestock: closer than we think?. <b>2005</b> , 23, 533-5		14
734	En route to early diagnosis of Alzheimer's disease--are we there yet?. <b>2005</b> , 23, 531-3		20
733	DNA-Based Assembly of Metal Nanoparticles. <b>2005</b> , 2005, 3641-3655		107
732	Nanomaterial-based amplified transduction of biomolecular interactions. <b>2005</b> , 1, 1036-43		370
731	Optically and Chemically Encoded Nanoparticle Materials for DNA and Protein Detection. <b>2005</b> , 30, 376-380		43
730	Nanoscience enables ultrasensitive detection of Alzheimer's biomarker. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 2263-4	11.5	49
729	Epithelial lining fluid solute concentrations in chronic obstructive lung disease patients and normal subjects. <b>2005</b> , 99, 1286-92		68
728	The role of cerebral amyloid beta accumulation in common forms of Alzheimer disease. <b>2005</b> , 115, 1121-9		178
727	A bio-bar-code assay based upon dithiothreitol-induced oligonucleotide release. <b>2005</b> , 77, 8174-8		161
726	CSF biomarkers for Alzheimer's disease: use in early diagnosis and evaluation of drug treatment. <b>2005</b> , 5, 661-72		99
725	Key roles for chain flexibility in block copolymer membranes that contain pores or make tubes. <b>2005</b> , 5, 2343-9		71

724	Colorimetric bio-barcode amplification assay for cytokines. <b>2005</b> , 77, 6985-8	114
723	Point-of-care molecular diagnostic systems--past, present and future. <b>2005</b> , 8, 504-9	121
722	Hyperphosphorylated neurofilament NF-H is a serum biomarker of axonal injury. <b>2005</b> , 336, 1268-77	173
721	Nanotechnology in clinical laboratory diagnostics. <b>2005</b> , 358, 37-54	318
720	Microarray-based detection of protein binding and functionality by gold nanoparticle probes. <b>2005</b> , 77, 5770-4	146
719	The importance of an endotoxin-free environment during the production of nanoparticles used in medical applications. <b>2006</b> , 6, 1682-6	195
718	Analysis of the inter- and extracellular formation of platinum nanoparticles by <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> using response surface methodology. <b>2006</b> , 17, 3482-9	200
717	From homoligand- to mixed-ligand- monolayer-protected metal nanoparticles: a scanning tunneling microscopy investigation. <b>2006</b> , 128, 11135-49	174
716	Cytotoxic Intermediates in the Fibrillation Pathway: Aβ Oligomers in Alzheimer's Disease as a Case Study. <b>2006</b> , 60-81	1
715	Multiplexed detection of protein cancer markers with biobarcode nanoparticle probes. <b>2006</b> , 128, 8378-9	385
714	A bio-barcode assay for on-chip attomolar-sensitivity protein detection. <b>2006</b> , 6, 1293-9	191
713	Protein detection using biobarcode. <b>2006</b> , 2, 470-6	11
712	Detection of protein analytes via nanoparticle-based bio bar code technology. <b>2006</b> , 78, 2055-9	124
711	Maximizing DNA loading on a range of gold nanoparticle sizes. <b>2006</b> , 78, 8313-8	887
710	Bimetallic silver-gold nanowires: fabrication and use in surface-enhanced Raman scattering. <b>2006</b> , 16, 3929-3935	160
709	Synaptic targeting by A beta oligomers (ADDLS) as a basis for memory loss in early Alzheimer's disease. <b>2006</b> , 2, 43-55	86
708	Fluoroimmunoassay for antigen based on fluorescence quenching signal of gold nanoparticles. <b>2006</b> , 78, 1104-6	165
707	Different conformations of amyloid beta induce neurotoxicity by distinct mechanisms in human cortical neurons. <b>2006</b> , 26, 6011-8	408

706	Nanodiagnostics: a new frontier for clinical laboratory medicine. <b>2006</b> , 52, 1238-46	145
705	A selected history and future of immunoassay development and applications in clinical chemistry. <b>2006</b> , 369, 119-24	104
704	Gold nanoparticle probes for the detection of nucleic acid targets. <b>2006</b> , 363, 120-6	290
703	Multipole plasmon resonances in gold nanorods. <b>2006</b> , 110, 2150-4	296
702	Multifunctional Nanoparticles for Cancer Therapy. <b>2006</b> , 59-75	
701	BIOSENSORS BASED ON GOLD NANOPARTICLE LABELING. <b>2006</b> , 429-466	1
700	Biomarkers for Alzheimer's disease--clinical needs and application. <b>2005</b> , 8, 339-46	54
699	Application of Nanoscale Bioassemblies to Clinical Laboratory Diagnostics. <b>2006</b> , 41, 23-48	2
698	Toward the emergence of nanoneurosurgery: part II--nanomedicine: diagnostics and imaging at the nanoscale level. <b>2006</b> , 58, 805-23; discussion 805-23	84
697	Temporal memory deficits in Alzheimer's mouse models: rescue by genetic deletion of BACE1. <b>2006</b> , 23, 251-60	221
696	Cyclooxygenase-dependent lipid-modification of brain proteins. <b>2005</b> , 15, 139-42	26
695	Alzheimer's disease: A needle from the haystack. <b>2006</b> , 440, 284-5	18
694	Chemical biology: a pocketful of colour. <b>2006</b> , 440, 285	2
693	Designed DNA molecules: principles and applications of molecular nanotechnology. <b>2006</b> , 7, 565-75	119
692	High interest in screening and treatment for mild cognitive impairment in older adults: A pilot study. <b>2006</b> , 54, 1388-94	21
691	Biotin-avidin interaction-based screening assay for Alzheimer's beta-peptide oligomer inhibitors. <b>2006</b> , 356, 265-72	38
690	Toward the detection of single virus particle in serum. <b>2006</b> , 356, 161-70	19
689	Nanotechnologies for biomolecular detection and medical diagnostics. <b>2006</b> , 10, 11-9	408

688	Nanoparticle-mediated local and remote manipulation of protein aggregation. <b>2006</b> , 6, 110-5	256
687	The study of Alzheimer's disease biomarkers. <b>2006</b> , 2, 5-16	15
686	Multisegmented one-dimensional nanorods prepared by hard-template synthetic methods. <b>2006</b> , 45, 2672-92	447
685	Multiplexed DNA detection with biobarcode nanoparticle probes. <b>2006</b> , 45, 3303-6	231
684	Proteolytic actuation of nanoparticle self-assembly. <b>2006</b> , 45, 3161-5	127
683	Reversible binding of fluorescent proteins at DNA-gold nanoparticles. <b>2006</b> , 45, 6827-30	38
682	Designed fabrication of multifunctional magnetic gold nanoshells and their application to magnetic resonance imaging and photothermal therapy. <b>2006</b> , 45, 7754-8	453
681	Vielsegmentige Nanostäbe: Templatsynthese und Eigenschaften. <b>2006</b> , 118, 2738-2759	41
680	Multiplexed DNA Detection with Biobarcode Nanoparticle Probes. <b>2006</b> , 118, 3381-3384	52
679	Proteolytic Actuation of Nanoparticle Self-Assembly. <b>2006</b> , 118, 3233-3237	18
678	Reversible Binding of Fluorescent Proteins at DNA-Gold Nanoparticles. <b>2006</b> , 118, 6981-6984	7
677	Designed Fabrication of Multifunctional Magnetic Gold Nanoshells and Their Application to Magnetic Resonance Imaging and Photothermal Therapy. <b>2006</b> , 118, 7918-7922	142
676	Dendrimer-Scaffold-Based Electron-Beam Patterning of Biomolecules. <b>2006</b> , 18, 315-319	30
675	Early diagnostics and therapeutics for Alzheimer's disease--how early can we get there?. <b>2006</b> , 6, 1293-306	19
674	Genotoxicity in Alzheimer's disease: role of amyloid. <b>2006</b> , 3, 365-75	9
673	Vicious cycles within the neuropathophysiologic mechanisms of Alzheimer's disease. <b>2006</b> , 3, 95-108	41
672	Genetic and pharmacological basis for therapeutic inhibition of beta- and gamma-secretases in mouse models of Alzheimer's memory deficits. <b>2006</b> , 17, 429-54	25
671	The role of amyloid-beta derived diffusible ligands (ADDLs) in Alzheimer's disease. <b>2006</b> , 6, 597-608	96

670	ERK1/2 activation mediates Abeta oligomer-induced neurotoxicity via caspase-3 activation and tau cleavage in rat organotypic hippocampal slice cultures. <b>2006</b> , 281, 20315-25	138
669	Insights into the mechanisms of action of anti-Abeta antibodies in Alzheimer's disease mouse models. <b>2006</b> , 20, 2576-8	97
668	Abeta oligomer-induced aberrations in synapse composition, shape, and density provide a molecular basis for loss of connectivity in Alzheimer's disease. <b>2007</b> , 27, 796-807	945
667	Emerging technologies for point-of-care genetic testing. <b>2007</b> , 7, 359-70	43
666	From molecular diagnostics to personalized testing. <b>2007</b> , 8, 85-99	10
665	Advances on the understanding of the origins of synaptic pathology in AD. <b>2007</b> , 8, 486-508	28
664	Metal nanoparticle-based detection for DNA analysis. <b>2007</b> , 8, 274-85	17
663	High-throughput assembly of nanoelements in nanoporous alumina templates. <b>2007</b> , 90, 163119	16
662	Memories: Molecules and Circuits. <b>2007</b> ,	2
661	Current state and future directions of neurochemical biomarkers for Alzheimer's disease. <b>2007</b> , 45, 1421-34	58
660	Beta-amyloid modulation of synaptic transmission and plasticity. <b>2007</b> , 27, 11832-7	94
659	Amyloid beta1-40 quantification in CSF: comparison between chromatographic and immunochemical methods. <b>2007</b> , 23, 246-50	23
658	Increase in beta-amyloid levels in cerebrospinal fluid of children with Down syndrome. <b>2007</b> , 24, 369-74	29
657	Chapter 1 Amyloid and Amyloid-Like Protein Aggregates in Neurodegenerative Disease. <b>2007</b> , 30, 1-32	
656	Biomimetic Nanosensors. <b>2007</b> ,	
655	Detection of amyloid-beta oligomers in human cerebrospinal fluid by flow cytometry and fluorescence resonance energy transfer. <b>2007</b> , 11, 117-25	57
654	Nanoparticle-Based biobarcode amplification assay (BCA) for sensitive and early detection of human immunodeficiency type 1 capsid (p24) antigen. <b>2007</b> , 46, 231-7	73
653	Introduction to nanotechnology: potential applications in physical medicine and rehabilitation. <b>2007</b> , 86, 225-41	13

652	Single particle detection of Abeta aggregates associated with Alzheimer's disease. <b>2007</b> , 364, 902-7	41
651	beta-Sheet structured beta-amyloid(1-40) perturbs phosphatidylcholine model membranes. <b>2007</b> , 368, 982-97	71
650	Botulism diagnostics: from clinical symptoms to in vitro assays. <b>2007</b> , 33, 109-25	94
649	Biomedical nanotechnology for cancer. <b>2007</b> , 91, 899-927	19
648	Decorating carbon nanotubes with metal or semiconductor nanoparticles. <b>2007</b> , 17, 2679	574
647	Advances and challenges of nanotechnology-based drug delivery systems. <b>2007</b> , 4, 621-33	86
646	In vitro cytotoxicity of silica nanoparticles at high concentrations strongly depends on the metabolic activity type of the cell line. <b>2007</b> , 41, 2064-8	325
645	Sensitive ELISA detection of amyloid-beta protofibrils in biological samples. <b>2007</b> , 103, 334-45	122
644	Aspects of beta-amyloid as a biomarker for Alzheimer's disease. <b>2007</b> , 1, 59-78	65
643	Cognition Enhancers. <b>2007</b> , 241-283	5
642	Molecular Dynamics Simulation Study of Self-Assembled Monolayers of Alkanethiol Surfactants on Spherical Gold Nanoparticles <b>2007</b> , 111, 15857-15862	169
641	Biosensors and Bio-Bar Code Assays Based on Biofunctionalized Magnetic Microbeads. <b>2007</b> , 7, 589-614	105
640	Biosensing with plasmonic nanoparticles. <b>2007</b> , 219-270	3
639	Microarray-based kinase inhibition assay by gold nanoparticle probes. <b>2007</b> , 79, 773-7	53
638	Immunomagnetic diffractometry for detection of diagnostic serum markers. <b>2007</b> , 129, 15824-9	57
637	Homogeneous detection of nucleic acids based upon the light scattering properties of silver-coated nanoparticle probes. <b>2007</b> , 79, 6650-4	94
636	Nanoparticle self-assembly gated by logical proteolytic triggers. <b>2007</b> , 129, 6064-5	116
635	Nonenzymatic detection of bacterial genomic DNA using the bio bar code assay. <b>2007</b> , 79, 9218-23	112

634	Abeta oligomers induce neuronal oxidative stress through an N-methyl-D-aspartate receptor-dependent mechanism that is blocked by the Alzheimer drug memantine. <b>2007</b> , 282, 11590-601	654
633	Ultrasensitive electrochemical detection of proteins by amplification of aptamer-nanoparticle bio bar codes. <b>2007</b> , 79, 8024-9	120
632	Nanotechnology in the diagnosis and management of heart, lung and blood diseases. <b>2007</b> , 7, 149-60	18
631	Nanotechnologies for Diagnosis [Present and Future. <b>2007</b> ,	
630	Ultrasensitive assays for proteins. <b>2007</b> , 132, 724-37	118
629	Amyloid-beta aggregation. <b>2007</b> , 4, 13-27	244
628	. <b>2007</b> ,	7
627	Direct detection of nucleic acids by tagging phosphates on their backbones with conductive nanoparticles. <b>2007</b> , 46, 2051-4	25
626	Colorimetric detection of mercuric ion (Hg <sup>2+</sup> ) in aqueous media using DNA-functionalized gold nanoparticles. <b>2007</b> , 46, 4093-6	1124
625	Direct Detection of Nucleic Acids by Tagging Phosphates on Their Backbones with Conductive Nanoparticles. <b>2007</b> , 119, 2097-2100	5
624	Colorimetric Detection of Mercuric Ion (Hg <sup>2+</sup> ) in Aqueous Media using DNA-Functionalized Gold Nanoparticles. <b>2007</b> , 119, 4171-4174	246
623	Nanoparticle Self-Assembly Directed by Antagonistic Kinase and Phosphatase Activities. <b>2007</b> , 19, 3579-3583	41
622	A perspective on bioconjugated nanoparticles and quantum dots. <b>2007</b> , 59, 1-10	71
621	Nanobarcode gene expression monitoring system for potential miniaturized space applications. <b>2007</b> , 40, 513-522	
620	Biosensing: Taking charge of biomolecules. <b>2007</b> , 2, 596-7	39
619	Detection of proteins using a colorimetric bio-barcode assay. <b>2007</b> , 2, 1438-44	103
618	Monoclonal antibodies that target pathological assemblies of Abeta. <b>2007</b> , 100, 23-35	271
617	Advancing translational research with the Semantic Web. <b>2007</b> , 8 Suppl 3, S2	165

616	Soluble protein oligomers as emerging toxins in Alzheimer's and other amyloid diseases. <b>2007</b> , 59, 332-45	257
615	Large size fibrillar bundles of the Alzheimer amyloid beta-protein. <b>2007</b> , 36, 701-9	12
614	Design von bioaktiven und nanostrukturierten Oberflächen. <b>2007</b> , 13, 917-930	
613	Laboratory biomarkers in Alzheimer's disease. <b>2007</b> , 7, 381-7	6
612	Application of Surface-Enhanced Raman Spectroscopy for Detection of Beta Amyloid Using Nanoshells. <b>2007</b> , 2, 55-64	60
611	Why Alzheimer's is a disease of memory: the attack on synapses by A beta oligomers (ADDLs). <b>2008</b> , 12, 51S-7S	74
610	Gold nanoparticles for the development of clinical diagnosis methods. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 391, 943-50	4-4 384
609	Quantum-dot-based electrochemical immunoassay for high-throughput screening of the prostate-specific antigen. <b>2008</b> , 4, 82-6	111
608	Enzyme-semiconductor interactions: Routes from fundamental aspects to photoactive devices. <b>2008</b> , 245, 1884-1898	12
607	Mass spectrometry signal amplification method for attomolar detection of antigens using small-molecule-tagged gold microparticles. <b>2008</b> , 47, 9518-21	54
606	Enzyme-Based Multi-Component Optical Nanoprobes for Sequence-Specific Detection of DNA Hybridization. <b>2008</b> , 20, 497-500	118
605	Mass Spectrometry Signal Amplification Method for Attomolar Detection of Antigens Using Small-Molecule-Tagged Gold Microparticles. <b>2008</b> , 120, 9660-9663	7
604	Electrical impedance spectroscopy investigation of surfactant-magnetite-polypyrrole particles. <b>2008</b> , 319, 441-9	38
603	A nanoparticle label/immunochromatographic electrochemical biosensor for rapid and sensitive detection of prostate-specific antigen. <b>2008</b> , 23, 1659-65	142
602	Efficient screening of high-signal and low-background antibody pairs in the bio-bar code assay using prion protein as the target. <b>2008</b> , 382, 60-2	10
601	Multifunctional nanoparticles--properties and prospects for their use in human medicine. <b>2008</b> , 26, 425-33	623
600	Ultrasensitive optical biodiagnostic methods using metallic nanoparticles. <b>2008</b> , 3, 215-32	51
599	Targeted proteomics in Alzheimer's disease: focus on amyloid-beta. <b>2008</b> , 5, 225-37	43

598	Amyloid beta oligomers induce impairment of neuronal insulin receptors. <b>2008</b> , 22, 246-60	431
597	Biosensing with plasmonic nanosensors. <b>2008</b> , 7, 442-53	5354
596	Plasma antibodies to Abeta40 and Abeta42 in patients with Alzheimer's disease and normal controls. <b>2008</b> , 1219, 169-79	23
595	Nanoparticle-based biosensors and bioassays. <b>2008</b> , 441-457	3
594	Microarray methods for protein biomarker detection. <b>2008</b> , 133, 975-83	122
593	Electrochemical DNAzyme sensor for lead based on amplification of DNA-Au bio-bar codes. <b>2008</b> , 80, 6323-8	246
592	Magnetic nanoparticle-peptide conjugates for in vitro and in vivo targeting and extraction of cancer cells. <b>2008</b> , 130, 10258-62	169
591	Peptide antisense nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 17222-6	11.5 96
590	Anti-oligomeric Abeta single-chain variable domain antibody blocks Abeta-induced toxicity against human neuroblastoma cells. <b>2008</b> , 384, 917-28	62
589	Multifunctional inorganic nanoparticles for imaging, targeting, and drug delivery. <b>2008</b> , 2, 889-96	1612
588	Gold nanoparticle-based assays for the detection of biologically relevant molecules. <b>2008</b> , 3, 543-53	29
587	Structural classification of toxic amyloid oligomers. <b>2008</b> , 283, 29639-43	622
586	Nanoparticle assisted magnetic resonance imaging of the early reversible stages of amyloid beta self-assembly. <b>2008</b> , 2197-9	39
585	Nanofluidics: Systems and Applications. <b>2008</b> , 8, 441-450	78
584	Fluorescence recovery assay for the detection of protein-DNA binding. <b>2008</b> , 80, 5616-21	48
583	Superparamagnetic nanoparticle-polystyrene bead conjugates as pathogen capture mimics: a parametric study of factors affecting capture efficiency and specificity. <b>2008</b> , 24, 3493-502	21
582	In situ amplified electrochemical immunoassay for carcinoembryonic antigen using horseradish peroxidase-encapsulated nanogold hollow microspheres as labels. <b>2008</b> , 80, 8064-70	189
581	Peripheral Abeta subspecies as risk biomarkers of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 14052-7	11.5 193

580	Prediction of Alzheimer's disease using a cerebrospinal fluid pattern of C-terminally truncated beta-amyloid peptides. <b>2008</b> , 5, 268-76	27
579	Amplified transduction of biomolecular interactions based on the use of nanomaterials. <b>2008</b> , 109, 239-54	1
578	Chip-based molecular diagnostics using metal nanoparticles. <b>2008</b> , 2, 813-28	7
577	Pluronic/chitosan shell cross-linked nanocapsules encapsulating magnetic nanoparticles. <b>2008</b> , 19, 1571-83	22
576	Structure-function implications in Alzheimer's disease: effect of Abeta oligomers at central synapses. <b>2008</b> , 5, 233-43	81
575	Role of metal ions in the abeta oligomerization in Alzheimer's disease and in other neurological disorders. <b>2008</b> , 5, 500-7	89
574	Stepwise silver-staining-based immunosorbent assay for amyloid-beta autoantibody detection. <b>2008</b> , 3, 485-93	4
573	Nanotechnology solutions for Alzheimer's disease: advances in research tools, diagnostic methods and therapeutic agents. <b>2008</b> , 13, 199-223	79
572	A method for the detection of amyloid-beta1-40, amyloid-beta1-42 and amyloid-beta oligomers in blood using magnetic beads in combination with Flow cytometry and its application in the diagnostics of Alzheimer's disease. <b>2008</b> , 14, 127-31	16
571	Biofunctionalized Magnetic Micro/Nanoparticles for Biosensing Technologies. 169-197	2
570	Drosophila models of Alzheimer's amyloidosis: the challenge of dissecting the complex mechanisms of toxicity of amyloid-beta 42. <b>2008</b> , 15, 523-40	48
569	What correlates with the intention to be tested for mild cognitive impairment (MCI) in healthy older adults?. <b>2008</b> , 22, 144-52	10
568	. <b>2008</b> ,	15
567	Nanotechnology in Clinical and Translational Research. <b>2009</b> , 123-135	
566	Protection of synapses against Alzheimer's-linked toxins: insulin signaling prevents the pathogenic binding of Abeta oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1971-6	11,5 508
565	Electrophilic affibodies forming covalent bonds to protein targets. <b>2009</b> , 284, 32906-13	25
564	Amyloid beta-protein toxicity and the pathogenesis of Alzheimer disease. <b>2009</b> , 284, 4755-9	153
563	Biosensing with plasmonic nanosensors. <b>2009</b> , 308-319	79

562	Creutzfeldt-jakob, Parkinson, lewy body dementia and Alzheimer diseases: from diagnosis to therapy. <b>2009</b> , 9, 2-11	6
561	ARTIFICIALLY DESIGNED DNA NANOSTRUCTURES. <b>2009</b> , 04, 119-139	18
560	Detection of Amyloid-beta aggregates in body fluids: a suitable method for early diagnosis of Alzheimer's disease?. <b>2009</b> , 6, 285-9	20
559	A role for synaptic zinc in activity-dependent Abeta oligomer formation and accumulation at excitatory synapses. <b>2009</b> , 29, 4004-15	189
558	A specific enzyme-linked immunosorbent assay for measuring beta-amyloid protein oligomers in human plasma and brain tissue of patients with Alzheimer disease. <b>2009</b> , 66, 190-9	161
557	Alzheimer's-associated Abeta oligomers show altered structure, immunoreactivity and synaptotoxicity with low doses of oleocanthal. <b>2009</b> , 240, 189-97	105
556	Gold nanoparticle enhanced immuno-PCR for ultrasensitive detection of Hantaan virus nucleocapsid protein. <b>2009</b> , 346, 64-70	63
555	Monitoring the amyloid beta-peptide in vivo--caveat emptor. <b>2009</b> , 14, 241-51	9
554	Constrained Synthesis and Organization of Catalytically Active Metal Nanoparticles by Self-Assembled Protein Templates. <b>2009</b> , 21, 3515-3519	55
553	Cognitive-Performance Recovery of Alzheimer's Disease Model Mice by Modulation of Early Soluble Amyloidal Assemblies. <b>2009</b> , 121, 2015-2020	15
552	Bioinspired Colorimetric Detection of Calcium(II) Ions in Serum Using Calsequestrin-Functionalized Gold Nanoparticles. <b>2009</b> , 121, 4202-4205	18
551	CE can identify small molecules that selectively target soluble oligomers of amyloid beta protein and display antifibrillogenic activity. <b>2009</b> , 30, 1418-29	33
550	Cognitive-performance recovery of Alzheimer's disease model mice by modulation of early soluble amyloidal assemblies. <b>2009</b> , 48, 1981-6	114
549	Bioinspired colorimetric detection of calcium(II) ions in serum using calsequestrin-functionalized gold nanoparticles. <b>2009</b> , 48, 4138-41	94
548	Localized surface plasmon coupled fluorescence fiber-optic biosensor for alpha-fetoprotein detection in human serum. <b>2009</b> , 24, 1610-4	58
547	Sensitivity enhancement in DNA hybridization assay using gold nanoparticle-labeled two reporting probes. <b>2009</b> , 25, 435-41	7
546	Bio-inspired colorimetric detection of Hg <sup>2+</sup> and Pb <sup>2+</sup> heavy metal ions using Au nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 33-46	4-4 180
545	Current status of nanotechnology approaches for cardiovascular disease: a personal perspective. <b>2009</b> , 1, 149-55	25

544	Colloidal gold and silver triangular nanoprisms. <b>2009</b> , 5, 646-64	712
543	Drivers of biodiagnostic development. <b>2009</b> , 462, 461-4	614
542	Matrix-insensitive protein assays push the limits of biosensors in medicine. <b>2009</b> , 15, 1327-32	315
541	Automated and ultrasensitive detection of methyl-3-quinoxaline-2-carboxylic acid by using gold nanoparticles probes SIA-rt-PCR. <b>2009</b> , 24, 2858-63	27
540	Selectively colorimetric detection of cysteine with triangular silver nanoprisms. <b>2009</b> , 20, 611-614	32
539	Attomolar protein detection in complex sample matrices with semi-homogeneous fluidic force discrimination assays. <b>2009</b> , 24, 1109-15	61
538	A microfluidic detection system based upon a surface immobilized biobarcode assay. <b>2009</b> , 24, 2397-403	35
537	Nano-ELISA for highly sensitive protein detection. <b>2009</b> , 24, 2836-41	121
536	Construction of DNA sandwich electrochemical biosensor with nanoPbS and nanoAu tags on magnetic microbeads. <b>2009</b> , 24, 3223-8	29
535	Gold nanoparticles in nanomedicine: preparations, imaging, diagnostics, therapies and toxicity. <b>2009</b> , 38, 1759-82	2188
534	An operationally simple colorimetric assay of hyaluronidase activity using cationic gold nanoparticles. <b>2009</b> , 134, 1291-3	40
533	Field-effect enzymatic amplifying detector with picomolar detection limit. <b>2009</b> , 81, 7123-6	19
532	Dissociating beta-amyloid from alpha 7 nicotinic acetylcholine receptor by a novel therapeutic agent, S 24795, normalizes alpha 7 nicotinic acetylcholine and NMDA receptor function in Alzheimer's disease brain. <b>2009</b> , 29, 10961-73	91
531	In vitro diagnostic prospects of nanoparticles. <b>2009</b> , 403, 1-8	101
530	Insulin resistance and amyloidogenesis as common molecular foundation for type 2 diabetes and Alzheimer's disease. <b>2009</b> , 1792, 482-96	231
529	Protein aggregation as a paradigm of aging. <b>2009</b> , 1790, 980-96	78
528	Oligomeric aggregates of amyloid beta peptide 1-42 activate ERK/MAPK in SH-SY5Y cells via the alpha7 nicotinic receptor. <b>2009</b> , 55, 796-801	38
527	Clioquinol and other hydroxyquinoline derivatives inhibit Abeta(1-42) oligomer assembly. <b>2009</b> , 465, 99-103	57

526	The sea urchin embryo: a model to study Alzheimer's beta amyloid induced toxicity. <b>2009</b> , 483, 120-6	15
525	Abeta oligomers and fibrillar aggregates induce different apoptotic pathways in LAN5 neuroblastoma cell cultures. <b>2009</b> , 96, 4200-11	83
524	Nanoscale labels: nanoparticles and liposomes in the development of high-performance biosensors. <b>2009</b> , 4, 447-67	41
523	Recent advances in nanostructured chemosensors and biosensors. <b>2009</b> , 134, 1980-90	144
522	Amplified detection of protein cancer biomarkers using DNAzyme functionalized nanoproboscopes. <b>2009</b> , 6845-7	46
521	Biomolecular sensing via coupling DNA-based recognition with gold nanoparticles. <b>2009</b> , 42, 203001	39
520	Ultrasensitive and highly selective detection of Alzheimer's disease biomarker using two-photon Rayleigh scattering properties of gold nanoparticle. <b>2009</b> , 3, 2834-40	187
519	Functional nanomaterial-based amplified bio-detection strategies. <b>2009</b> , 19, 2107	14
518	[Biomarkers for early diagnosis of Alzheimer's disease: current update and future directions]. <b>2009</b> , 165, 511-20	6
517	Detection and Identification of Bioanalytes with High Resolution LSPR Spectroscopy and MALDI Mass Spectrometry. <b>2009</b> , 113, 5891-5894	41
516	Nanoparticle-based bio-barcode assay redefines "undetectable" PSA and biochemical recurrence after radical prostatectomy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 18437-42	11.5 335
515	Targeting generation of antibodies specific to conformational epitopes of amyloid beta-derived neurotoxins. <b>2009</b> , 8, 65-81	24
514	Neurobiology of cognitive disorders. <b>2009</b> , 22, 546-51	20
513	DNA-Modified Nanoparticles: Gold and Silver. <b>2009</b> , 405-440	
512	Novel Strategies and Tools for Enhanced Sensitivity in Routine Biomolecule Analytics. <b>2009</b> , 5, 390-407	7
511	Analytical Tools for Detecting Amyloid Beta Oligomerisation and Assembly. <b>2009</b> , 5, 229-245	10
510	Quantitative and mechanistic studies of Abeta immunotherapy. <b>2009</b> , 8, 31-49	39
509	Amyloid-beta peptide and oligomers in the brain and cerebrospinal fluid of aged canines. <b>2010</b> , 20, 637-46	54

508 Spherical and Anisotropic Silver Nanomaterials in Medical Diagnosis. **2010**,

507 Interference from heterophilic antibodies in amyloid- $\beta$  oligomer ELISAs. **2010**, 21, 1295-301 46

506 Nanoparticles for detection and diagnosis. **2010**, 62, 316-28 256

505 Emerging nanotechnology-based strategies for the identification of microbial pathogenesis. **2010**, 62, 408-23 229

504 Application of smart nanostructures in medicine. **2010**, 5, 1129-38 21

503 Separation and characterization of aggregated species of amyloid-beta peptides. *Analytical and Bioanalytical Chemistry*, **2010**, 397, 2357-66 4-4 9

502 Inhibition of beta 1-40 amyloid fibrillation with N-acetyl-L-cysteine capped quantum dots. **2010**, 31, 91-8 115

501 Transgenic Drosophila models of Alzheimer's disease and tauopathies. **2010**, 214, 245-62 74

500 Sensitive detection of A $\beta$  protofibrils by proximity ligation--relevance for Alzheimer's disease. **2010**, 11, 124 32

499 Amyloid beta and APP as biomarkers for Alzheimer's disease. **2010**, 45, 23-9 88

498 Role of the SNK-SPAR pathway in the development of Alzheimer's disease. **2010**, 62, 214-21 10

497 An Aptamer Cross-Linked Hydrogel as a Colorimetric Platform for Visual Detection. **2010**, 122, 1070-1074 53

496 Colorimetric Detection of Glucose in Rat Brain Using Gold Nanoparticles. **2010**, 122, 4910-4914 68

495 An aptamer cross-linked hydrogel as a colorimetric platform for visual detection. **2010**, 49, 1052-6 304

494 Colorimetric detection of glucose in rat brain using gold nanoparticles. **2010**, 49, 4800-4 230

493 Molecular biomimetics: GEPI-based biological routes to technology. **2010**, 94, 78-94 81

492 Nanotechnology tools in pharmaceutical R&D. **2010**, 12, 24-30 33

491 An on-nanoparticle rolling-circle amplification platform for ultrasensitive protein detection in biological fluids. **2010**, 6, 2520-5 52

490	Colorimetric Cu(2+) detection using DNA-modified gold-nanoparticle aggregates as probes and click chemistry. <b>2010</b> , 6, 623-6	233
489	N-methyl-D-aspartate receptors are required for synaptic targeting of Alzheimer's toxic amyloid- $\beta$ peptide oligomers. <b>2010</b> , 115, 1520-9	123
488	Biomarkers for Alzheimer's disease: academic, industry and regulatory perspectives. <b>2010</b> , 9, 560-74	446
487	Nanoscale Techniques for Biomarker Quantification. <b>2010</b> , 457-493	
486	Cerebrospinal Fluid from Alzheimer's disease patients promotes amyloid beta-protein oligomerization. <b>2010</b> , 21, 81-6	8
485	CSF Biomarkers for Alzheimer's Disease Diagnosis. <b>2010</b> , 2010,	61
484	Uncovering molecular biomarkers that correlate cognitive decline with the changes of hippocampus' gene expression profiles in Alzheimer's disease. <b>2010</b> , 5, e10153	100
483	Gold Nanoparticle-Based Biodetection for Chip-Based Portable Diagnosis Systems. <b>2010</b> , 15, 107-113	4
482	High-molecular-weight beta-amyloid oligomers are elevated in cerebrospinal fluid of Alzheimer patients. <b>2010</b> , 24, 2716-26	196
481	Protein Nano-Fibrillar Structure and Associated Diseases. <b>2010</b> , 7, 116-120	8
480	A novel sensitive immunoassay by nucleic acid barcode dot and its application in the detection of prostate-specific antigen. <b>2010</b> , 48, 279-83	6
479	Alzheimer's disease and the amyloid-beta peptide. <b>2010</b> , 19, 311-23	806
478	The Polyvalent Gold Nanoparticle Conjugate-Materials Synthesis, Biodiagnostics, and Intracellular Gene Regulation. <b>2010</b> , 35, 532-539	27
477	Immobilization of biomolecules on the surface of inorganic nanoparticles for biomedical applications. <b>2010</b> , 11, 014101	40
476	Clinical Nanomedicine: Nanomedical approaches in Alzheimer's disease. <b>2010</b> , 3,	1
475	Attenuated antiaggregation effects of magnetite nanoparticles in cerebrospinal fluid of people with Alzheimer's disease. <b>2010</b> , 6, 2200-5	7
474	"Smart" diblock copolymers as templates for magnetic-core gold-shell nanoparticle synthesis. <b>2010</b> , 10, 85-91	61
473	Immunoassays using polypeptide conjugate binders with tuned affinity. <b>2010</b> , 10, 863-7	4

472	Conjugation of fluorescent proteins with DNA oligonucleotides. <b>2010</b> , 21, 921-7	22
471	Nanomedicine. <b>2010</b> , 615-735	1
470	Amyloid- $\beta$ 1-40) inhibits amyloid- $\beta$ 1-42) induced activation of cytoplasmic phospholipase A2 and synapse degeneration. <b>2010</b> , 21, 985-93	16
469	Screening kinase inhibitors with a microarray-based fluorescent and resonance light scattering assay. <b>2010</b> , 82, 3067-72	43
468	Immunoassay on free-standing electrospun membranes. <b>2010</b> , 2, 252-8	21
467	Quantum dot capped magnetite nanorings as high performance nanoprobe for multiphoton fluorescence and magnetic resonance imaging. <b>2010</b> , 132, 14803-11	121
466	Functional nanoprobe for ultrasensitive detection of biomolecules. <b>2010</b> , 39, 4234-43	492
465	Aptamer-based bio-barcode assay for the detection of cytochrome-c released from apoptotic cells. <b>2010</b> , 395, 560-4	37
464	Cerebrospinal fluid and plasma biomarkers in Alzheimer disease. <b>2010</b> , 6, 131-44	1328
463	Electrochemiluminescence biobarcode method based on cysteamine-gold nanoparticle conjugates. <b>2010</b> , 82, 3099-103	91
462	Biological markers of amyloid beta-related mechanisms in Alzheimer's disease. <b>2010</b> , 223, 334-46	120
461	Biochemical markers in Alzheimer's disease clinical trials. <b>2010</b> , 4, 91-8	12
460	Use of theragnostic markers to select drugs for phase II/III trials for Alzheimer disease. <b>2010</b> , 2, 32	12
459	Effect of polar organic vapors on surface potential of Au nanoparticle aggregates probed by surface-enhanced Raman scattering of 2,6-dimethylphenylisocyanide. <b>2010</b> , 46, 3753-5	13
458	Highly sensitive protein detection using enzyme-labeled gold nanoparticle probes. <b>2010</b> , 135, 327-31	62
457	Resonance light scattering as a powerful tool for sensitive detection of $\beta$ amyloid peptide by gold nanoparticle probes. <b>2011</b> , 47, 9339-41	55
456	Nucleic acid-functionalized nanomaterials for bioimaging applications. <b>2011</b> , 21, 16323	40
455	Development of electrochemical based sandwich enzyme linked immunosensor for <i>Cryptosporidium parvum</i> detection in drinking water. <b>2011</b> , 13, 2782-7	22

454	Nanogold-based sensing of environmental toxins: excitement and challenges. <b>2011</b> , 29, 52-89	23
453	Cerebrospinal fluid biomarkers for Alzheimer's disease: the present and the future. <b>2011</b> , 8, 413-20	35
452	Heavy-chain complementarity-determining regions determine conformation selectivity of anti-a $\beta$ antibodies. <b>2011</b> , 8, 117-23	17
451	DNA-Conjugated Nanomaterials for Bioanalysis. <b>2011</b> , 105-126	0
450	A kinetic study of the interaction of DNA with gold nanoparticles: mechanistic aspects of the interaction. <b>2011</b> , 13, 1479-89	58
449	Denaturation of proteins near polar surfaces. <b>2011</b> , 135, 235103	18
448	Quantitative detection of adenosine in urine using silver enhancement of aptamer-gold nanoparticle aggregation and progressive dilution. <b>2011</b> , 47, 4956-8	24
447	A universal method for detection of amyloidogenic misfolded proteins. <b>2011</b> , 50, 4322-9	32
446	An abiotic fluorescent probe for cardiac troponin I. <b>2011</b> , 133, 14972-4	43
445	The future: biomarkers, biosensors, neuroinformatics, and e-neuropsychiatry. <b>2011</b> , 101, 375-400	5
444	Metal Nanoparticles in Microbiology. <b>2011</b> ,	61
443	Nano-enabled biomarker discovery and detection. <b>2011</b> , 5, 387-96	14
442	Enzymatic Synthesis of Platinum Nanoparticles: Prokaryote and Eukaryote Systems. <b>2011</b> , 103-134	6
441	A $\beta$ (42) induced MRI changes in aged rabbit brain resembles AD brain. <b>2011</b> , 59, 637-42	9
440	Purified high molecular weight synthetic A $\beta$ (1-42) and biological A $\beta$ oligomers are equipotent in rapidly inducing MTT formazan exocytosis. <b>2011</b> , 497, 1-5	5
439	Emerging nanoproteomics approaches for disease biomarker detection: a current perspective. <b>2011</b> , 74, 2660-81	53
438	The A $\beta$ oligomer hypothesis for synapse failure and memory loss in Alzheimer's disease. <b>2011</b> , 96, 529-43	314
437	Applications: Nanobiosystems, Medicine, and Health. <b>2011</b> , 305-374	3

436	The legacy of nanotechnology: revolution and prospects in neurosurgery. <b>2011</b> , 9, 608-14	25
435	Biomarkers in Alzheimer's disease drug development. <b>2011</b> , 7, e13-44	87
434	. <b>2011</b> ,	14
433	Structural and Toxic Properties of Protein Aggregates: Towards a Molecular Understanding of Alzheimer's Disease. <b>2011</b> ,	
432	Biosensors for Cancer Biomarkers. <b>2011</b> ,	
431	Detection of Soluble Amyloid- $\beta$ Oligomers and Insoluble High-Molecular-Weight Particles in CSF: Development of Methods with Potential for Diagnosis and Therapy Monitoring of Alzheimer's Disease. <b>2011</b> , 2011, 151645	14
430	Binding of the Same Analyte to Different Biosensor Surfaces. <b>2011</b> , 129-168	
429	Aggregation state and neurotoxic properties of alzheimer $\beta$ amyloid peptide. <b>2011</b> , 12, 235-57	14
428	Nanotechnology for Alzheimer's disease detection and treatment. <b>2011</b> , 1, 169-193	41
427	Nanotechnologies for Alzheimer's disease: diagnosis, therapy, and safety issues. <b>2011</b> , 7, 521-40	199
426	Rapid and sensitive detection of cytokines using functionalized gold nanoparticle-based immuno-PCR, comparison with immuno-PCR and ELISA. <b>2011</b> , 371, 38-47	40
425	Nanoparticle-based bio-barcode assay for the detection of bluetongue virus. <b>2011</b> , 178, 225-8	21
424	CSF levels of oligomeric alpha-synuclein and beta-amyloid as biomarkers for neurodegenerative disease. <b>2011</b> , 3, 1188-96	59
423	Surface enhanced optical spectroscopies for bioanalysis. <b>2011</b> , 136, 3831-53	104
422	Gold nanoparticle-based signal amplification for biosensing. <b>2011</b> , 417, 1-16	294
421	A $\beta$ oligomer-induced synapse degeneration in Alzheimer's disease. <b>2011</b> , 31, 939-48	123
420	Fish-on-a-chip: a sensitive detection microfluidic system for Alzheimer's disease. <b>2011</b> , 18, 33	19
419	Nanodevices in diagnostics. <b>2011</b> , 3, 11-32	51

418	Dissociation of $\beta$ amyloid from lipoprotein in cerebrospinal fluid from Alzheimer's disease accelerates $\beta$ amyloid-42 assembly. <b>2011</b> , 89, 815-21	8
417	Current Status and Future Prospects for Nanoparticle-Based Technology in Human Medicine. <b>2011</b> , 781-813	1
416	Advanced Nanoparticles in Medical Biosensors. <b>2011</b> , 37-55	
415	Electrochemical immunosensor of tumor necrosis factor $\beta$ based on alkaline phosphatase functionalized nanospheres. <b>2011</b> , 26, 1890-4	103
414	Ultrasensitive biosensing on the zepto-molar level. <b>2011</b> , 26, 3386-90	4
413	Universal optical assays based on multi-component nanoprobe for genomic deoxyribonucleic acid and proteins. <b>2011</b> , 702, 114-9	4
412	Specificity and sensitivity of the A $\beta$ oligomer ELISA. <b>2011</b> , 195, 249-54	27
411	Nanotechniques and Proteomics: An Integrated Platform for Diagnostics, Targeted Therapeutics and Personalized Medicine. <b>2011</b> , 9, 264-285	1
410	Alzheimer's disease: pathological mechanisms and recent insights. <b>2011</b> , 9, 674-84	35
409	Amyloid- $\beta$ induced synapse damage is mediated via cross-linkage of cellular prion proteins. <b>2011</b> , 286, 37955-37963	78
408	Magnetic particles in ultrasensitive biomarker protein measurements for cancer detection and monitoring. <b>2011</b> , 5, 381-391	50
407	A window into the heterogeneity of human cerebrospinal fluid A $\beta$ peptides. <b>2011</b> , 2011, 697036	12
406	Upcoming candidate cerebrospinal fluid biomarkers of Alzheimer's disease. <b>2012</b> , 6, 455-76	83
405	The load of amyloid- $\beta$ oligomers is decreased in the cerebrospinal fluid of Alzheimer's disease patients. <b>2012</b> , 31, 865-78	28
404	Molecular and Translational Vascular Medicine. <b>2012</b> ,	
403	Theranostic implications of nanotechnology in multiple sclerosis: a future perspective. <b>2012</b> , 2012, 160830	21
402	The Role of Insulin and Insulin-Like Growth Factor-1/FoxO-Mediated Transcription for the Pathogenesis of Obesity-Associated Dementia. <b>2012</b> , 2012, 384094	14
401	Molecular tilt on monolayer-protected nanoparticles. <b>2012</b> , 97, 36005	6

400	Biomarker Detections Using Functional Noble Metal Nanoparticles. <b>2012</b> , 177-205	2
399	Design of $\beta$ -amyloid aggregation inhibitors from a predicted structural motif. <b>2012</b> , 55, 3002-10	42
398	Plasmonic Nanosensors: Review and Prospect. <b>2012</b> , 18, 1110-1121	73
397	Quantum dots induce charge-specific amyloid-like fibrillation of insulin at physiological conditions. <b>2012</b> ,	4
396	A portrait of nanomedicine and its bioethical implications. <b>2012</b> , 40, 763-79	13
395	Translational actomyosin research: fundamental insights and applications hand in hand. <b>2012</b> , 33, 219-33	34
394	Fluid biomarkers in Alzheimer disease. <b>2012</b> , 2, a006221	120
393	Detection of hepatitis B surface antigen by target-induced aggregation monitored by dynamic light scattering. <b>2012</b> , 428, 119-25	30
392	Utilization of a multiple antigenic peptide as a calibration standard in the BAN50 single antibody sandwich ELISA for A $\beta$ oligomers. <b>2012</b> , 422, 375-80	9
391	Metal compounds as inhibitors of $\beta$ -amyloid aggregation. Perspectives for an innovative metallotherapeutics on Alzheimer's disease. <b>2012</b> , 256, 2357-2366	54
390	Neuronal receptors as targets for the action of amyloid-beta protein (A $\beta$ ) in the brain. <b>2012</b> , 14, e2	40
389	Biosensors Based on Nanoparticles and Electrochemical Detection. <b>2012</b> , 247-267	3
388	Two types of nanoparticle-based bio-barcode amplification assays to detect HIV-1 p24 antigen. <b>2012</b> , 9, 180	23
387	Gold nanoparticles in image-guided cancer therapy. <b>2012</b> , 393, 154-164	50
386	Metal Nanoparticles in Biomedical Applications. <b>2012</b> , 477-519	3
385	Nanotechnology for neurodegenerative disorders. <b>2012</b> , 8 Suppl 1, S51-8	60
384	Biochemistry and Biomedical Applications of Spherical Nucleic Acids (SNAs). <b>2012</b> , 1-20	6
383	Large aggregates are the major soluble A $\beta$ species in AD brain fractionated with density gradient ultracentrifugation. <b>2012</b> , 7, e32014	59

382	High-sensitivity nanosensors for biomarker detection. <b>2012</b> , 41, 2641-55	232
381	Nanostructured optical microchips for cancer biomarker detection. <b>2012</b> , 38, 382-8	36
380	Nanotechnology for neurodegenerative disorders. <b>2012</b> , 73, 45-51	67
379	Gold nanoparticles in the clinical laboratory: principles of preparation and applications. <b>2011</b> , 50, 193-209	52
378	Interrelations between CSF soluble A $\beta$ 1-42, SORL1, and tau levels in Alzheimer's disease. <b>2012</b> , 28, 543-52	21
377	The Handbook of Nanomedicine. <b>2012</b> ,	27
376	Methods for analysis of amyloid- $\beta$ aggregates. <b>2012</b> , 28, 735-58	47
375	Synaptotoxic amyloid- $\beta$ oligomers: a molecular basis for the cause, diagnosis, and treatment of Alzheimer's disease?. <b>2013</b> , 33 Suppl 1, S49-65	96
374	Gold nanoparticle based dot-blot immunoassay for sensitively detecting Alzheimer's disease related $\beta$ amyloid peptide. <b>2012</b> , 48, 8392-4	55
373	Amyloid- $\beta$ oligomers in cerebrospinal fluid are associated with cognitive decline in patients with Alzheimer's disease. <b>2012</b> , 29, 171-6	78
372	Antibodies covalently immobilized on actin filaments for fast myosin driven analyte transport. <b>2012</b> , 7, e46298	19
371	Progress on RNAi-based molecular medicines. <b>2012</b> , 7, 3971-80	29
370	Gold nanoparticles in biomedical applications: recent advances and perspectives. <b>2012</b> , 41, 2256-82	1419
369	Gold nanoparticles in chemical and biological sensing. <b>2012</b> , 112, 2739-79	3476
368	Spherical nucleic acids. <b>2012</b> , 134, 1376-91	742
367	Gold nanoparticle-enabled biological and chemical detection and analysis. <b>2012</b> , 41, 2849-66	557
366	Highly sensitive detection of protein and small molecules based on aptamer-modified electrochemiluminescence nanoprobe. <b>2012</b> , 137, 1963-9	19
365	Gold nanoparticles: preparation, properties, and applications in bionanotechnology. <b>2012</b> , 4, 1871-80	814

364	Cardiovascular Nanomedicine: Challenges and Opportunities. <b>2012</b> , 249-281	2
363	A highly sensitive gold-nanoparticle-based assay for acetylcholinesterase in cerebrospinal fluid of transgenic mice with Alzheimer's disease. <b>2012</b> , 1, 90-5	79
362	Surface plasmon polaritons: physics and applications. <b>2012</b> , 45, 113001	214
361	Nanomolecular Diagnostics. <b>2012</b> , 113-170	1
360	Soluble A $\beta$ oligomer production and toxicity. <b>2012</b> , 120 Suppl 1, 125-139	276
359	Amyloid oligomer detection by immobilized molecular chaperone. <b>2012</b> , 61, 28-33	5
358	Peptide-cleaving agents for human islet amyloid polypeptide containing substrate recognition site based on quinoxaline: cleavage efficiency enhanced by lowering substrate concentration. <b>2012</b> , 22, 1533-7	15
357	Naphthoquinone-tyrptophan reduces neurotoxic A $\beta$ 56 levels and improves cognition in Alzheimer's disease animal model. <b>2012</b> , 46, 663-72	35
356	A nanoparticle-based bio-barcode assay for ultrasensitive detection of ricin toxin. <b>2012</b> , 59, 12-6	26
355	Pharmacotherapies for Alzheimer's disease: beyond cholinesterase inhibitors. <b>2012</b> , 134, 8-25	153
354	Fluid biomarkers in Alzheimer's disease - current concepts. <b>2013</b> , 8, 20	147
353	A difunctional DNA-AuNP dendrimer coupling DNAzyme with intercalators for femtomolar detection of nucleic acids. <b>2013</b> , 49, 7304-6	32
352	Proteins in the electric field near the surface of mica. <b>2013</b> , 139, 045102	14
351	Sensitive SNP Detection of KIF6 Gene by Quantum Dot-DNA Conjugate Probe-Based Assay. <b>2013</b> , 46, 508-517	3
350	The case for soluble A $\beta$ oligomers as a drug target in Alzheimer's disease. <b>2013</b> , 34, 261-6	93
349	Ultrasensitive microfluidic solid-phase ELISA using an actuatable microwell-patterned PDMS chip. <b>2013</b> , 13, 4190-7	64
348	A SERS-based sandwich assay for ultrasensitive and selective detection of Alzheimer's tau protein. <b>2013</b> , 14, 3001-9	63
347	Amyloid- $\beta$ (1-42) protofibrils formed in modified artificial cerebrospinal fluid bind and activate microglia. <b>2013</b> , 8, 312-22	22

346	Sensitive detection of protein and miRNA cancer biomarkers using silicon-based photonic crystals and a resonance coupling laser scanning platform. <b>2013</b> , 13, 4053-64	51
345	Ultrafast molecular motor driven nanoseparation and biosensing. <b>2013</b> , 48, 145-52	28
344	An aptamer-based bio-barcode assay with isothermal recombinase polymerase amplification for cytochrome-c detection and anti-cancer drug screening. <b>2013</b> , 115, 159-65	49
343	Biomarkers of Neurological Disorders. <b>2013</b> , 49-153	
342	A near-infrared, surface-enhanced, fluorophore-linked immunosorbent assay. <b>2013</b> , 85, 7102-8	10
341	Brain amyloid- $\beta$ oligomers in ageing and Alzheimer's disease. <b>2013</b> , 136, 1383-98	325
340	Localized surface plasmon resonance: a unique property of plasmonic nanoparticles for nucleic acid detection. <b>2013</b> , 5, 12043-71	105
339	Alzheimer's disease biomarkers: correspondence between human studies and animal models. <b>2013</b> , 56, 116-30	15
338	Demonstrative experiments about gold nanoparticles and nanofilms: an introduction to nanoscience. <b>2013</b> , 46, 319-327	13
337	Gold-nanopatterned single interleukin-6 sandwich immunoassay chips with zeptomolar detection capability based on evanescent field-enhanced fluorescence imaging. <b>2013</b> , 138, 3478-82	10
336	Amyloid- $\beta$ oligomer detection by ELISA in cerebrospinal fluid and brain tissue. <b>2013</b> , 433, 112-20	84
335	Development of Light Waveguide Resonance Light-Scattering Scanner for Microarray Detection. <b>2013</b> , 41, 1458-1462	3
334	Protein fibrillation and nanoparticle interactions: opportunities and challenges. <b>2013</b> , 5, 2570-88	116
333	Tuning and assembling metal nanostructures with DNA. <b>2013</b> , 49, 2597-609	46
332	Glutathione dimerization-based plasmonic nanoswitch for biodetection of reactive oxygen and nitrogen species. <b>2013</b> , 7, 2221-30	43
331	The Structure, Energy, Confinement, and Enhancement of Hot Spots between Two Nanoparticles. <b>2013</b> , 117, 7744-7750	7
330	New ELISAs with high specificity for soluble oligomers of amyloid $\beta$ protein detect natural A $\beta$ oligomers in human brain but not CSF. <b>2013</b> , 9, 99-112	92
329	Nucleic acid-modified nanostructures as programmable atom equivalents: forging a new "table of elements". <b>2013</b> , 52, 5688-98	129

328	Nucleinsüremodifizierte Nanostrukturen als programmierbare Atomäquivalente: Entwicklung eines neuen Systems der Elemente 2013, 125, 5798-5809	10
327	Supramolecular self-assemblies as functional nanomaterials. 2013, 5, 7098-140	519
326	An assessment of the impact of SiO2 nanoparticles of different sizes on the rest/wake behavior and the developmental profile of zebrafish larvae. 2013, 9, 3161-8	28
325	Ferrite nanoparticles for future heart diagnostics. 2013, 112, 323-327	11
324	Responsive multidomain free-standing films of gold nanoparticles assembled by DNA-directed layer-by-layer approach. 2013, 13, 4449-55	46
323	Dimerization of chirally mutated Enkephalin neurotransmitters: implications for peptide and protein aggregation mechanisms. 2013, 117, 1770-9	8
322	Highly sensitive detection of human IgG using a novel bio-barcode assay combined with DNA chip technology. 2013, 15, 1	4
321	Integration of biosensors and drug delivery technologies for early detection and chronic management of illness. 2013, 13, 7680-713	38
320	Cerebrospinal fluid biomarkers for pathological processes in Alzheimer's disease. 2013, 26, 276-82	19
319	Amyloid-β oligomerization in Alzheimer dementia versus high-pathology controls. 2013, 73, 104-19	195
318	Quantum dynamical simulations of local field enhancement in metal nanoparticles. 2013, 25, 125304	18
317	Peptide and Protein-Based Nanoparticles. 2013, 65-80	
316	The amyloid-β oligomer count in cerebrospinal fluid is a biomarker for Alzheimer's disease. 2013, 34, 985-94	54
315	- Chitin Nanofibrils for Biomimetic Products: Nanoparticles and Nanocomposite Chitosan Films in Health Care. 2013, 704-739	
314	Microfluidics for Neuroscience: Novel Tools and Future Implications. 2013, 185-211	2
313	TREATMENTS FOR ALZHEIMER'S DISEASE: AN OVERVIEW. 2013, 4, 12-15	
312	Cellular Internalization of Quantum Dots Mediated by Cell-Penetrating Peptides. 2013, 1, 151-161	9
311	A Luminex assay detects amyloid β oligomers in Alzheimer's disease cerebrospinal fluid. 2013, 8, e67898	43

310	Predicting Cognitive Decline in Alzheimer's Disease (AD): The Role of Clinical, Cognitive Characteristics and Biomarkers. <b>2013</b> ,		
309	Biochips as Novel Bioassays. <b>2013</b> , 35		1
308	RNA aptamer probes as optical imaging agents for the detection of amyloid plaques. <b>2014</b> , 9, e89901		32
307	Immunoprecipitation of amyloid fibrils by the use of an antibody that recognizes a generic epitope common to amyloid fibrils. <b>2014</b> , 9, e105433		10
306	Noncovalent interactions of tiopronin-protected gold nanoparticles with DNA: two methods to quantify free energy of binding. <b>2014</b> , 2014, 143645		4
305	DNA-based immunoassays for sensitive detection of protein. <b>2014</b> , 202, 1248-1256		6
304	Potential applications of magnetic particles to detect and treat Alzheimer's disease. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 538	5	44
303	A promising road with challenges: where are gold nanoparticles in translational research?. <b>2014</b> , 9, 2353-70		50
302	Advancing the speed, sensitivity and accuracy of biomolecular detection using multi-length-scale engineering. <b>2014</b> , 9, 969-80		284
301	Chapter 4:Nanowire Biosensors. <b>2014</b> , 167-199		
300	Lab-on-a-Chip and Fluid Manipulation Applications. <b>2014</b> , 171-239		1
299	Platelet-activating factor antagonists enhance intracellular degradation of amyloid- $\beta$ 2 in neurons via regulation of cholesterol ester hydrolases. <b>2014</b> , 6, 15		9
298	Nanomedicine for Neurological Disorder. <b>2014</b> , 109-175		
297	A sensitive amyloid oligomer assay discriminates Alzheimer's and aged control cerebrospinal fluid. <b>2014</b> , 34, 2884-97		103
296	Detection of misfolded A $\beta$ oligomers for sensitive biochemical diagnosis of Alzheimer's disease. <b>2014</b> , 7, 261-8		124
295	Comparison between discrete dipole approximation and other modelling methods for the plasmonic response of gold nanospheres. <b>2014</b> , 115, 237-246		21
294	Biomarker modelling of early molecular changes in Alzheimer's disease. <b>2014</b> , 18, 213-27		4
293	A sensitive immunosorbent bio-barcode assay based on real-time immuno-PCR for detecting 3,4,3',4'-tetrachlorobiphenyl. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 1693-700	4.4	16

292	Post-genomics nanotechnology is gaining momentum: nanoproteomics and applications in life sciences. <b>2014</b> , 18, 111-31	19
291	Use of gold nanoparticles as crosslink agent to form chitosan nanocapsules: study of the direct interaction in aqueous solutions. <b>2014</b> , 135, 77-85	19
290	Nanoparticles and their applications in cell and molecular biology. <b>2014</b> , 6, 9-26	247
289	Quadratic recycling amplification for label-free and sensitive visual detection of HIV DNA. <b>2014</b> , 55, 220-4	43
288	Progress in Designing Artificial Proteases: A New Therapeutic Option for Amyloid Diseases. <b>2014</b> , 3, 18-32	11
287	Physicochemical characterization of nanoparticles and their behavior in the biological environment. <b>2014</b> , 16, 15053-67	76
286	Folate and biotin based bifunctional quantum dots as fluorescent cell labels. <b>2014</b> , 4, 10434	4
285	Physisorption and chemisorption of a self-assembled monolayer by the quartz crystal microbalance. <b>2014</b> , 30, 9637-42	5
284	Nanomedicine for Treatment of Cardiovascular Diseases and Stroke. <b>2014</b> , 247-298	
283	CSF in Alzheimer's disease. <b>2014</b> , 65, 143-72	18
282	Subdiffraction-limited plasmonic imaging with anisotropic metal nanoparticles. <b>2014</b> , 86, 2303-7	23
281	Targeting the proper amyloid-beta neuronal toxins: a path forward for Alzheimer's disease immunotherapeutics. <b>2014</b> , 6, 42	106
280	Conformation-specific antibodies to target amyloid oligomers and their application to immunotherapy for Alzheimer's disease. <b>2014</b> , 78, 1293-305	32
279	Xanthoceraside rescues learning and memory deficits through attenuating beta-amyloid deposition and tau hyperphosphorylation in APP mice. <b>2014</b> , 573, 58-63	36
278	A rapid one-step immunochromatographic test strip for rabies detection using canine serum samples. <b>2014</b> , 59, 247-51	5
277	Nanoparticles for Diagnosis and/or Treatment of Alzheimer's Disease. <b>2014</b> , 87-179	6
276	Direct Reading of Bona Fide Barcode Assays for Diagnostics with Smartphone Apps. <b>2015</b> , 5, 11727	12
275	Alzheimer's Disease Cerebrospinal Fluid and Neuroimaging Biomarkers: Diagnostic Accuracy and Relationship to Drug Efficacy. <b>2015</b> , 46, 817-36	37

274	Super-Resolution Microscopy of Cerebrospinal Fluid Biomarkers as a Tool for Alzheimer's Disease Diagnostics. <b>2015</b> , 46, 1007-20		9
273	The elusive nature and diagnostics of misfolded A $\beta$ oligomers. <b>2015</b> , 3, 17		20
272	DNA-Based Nanobiosensors as an Emerging Platform for Detection of Disease. <b>2015</b> , 15, 14539-68		74
271	Toward Epileptic Brain Region Detection Based on Magnetic Nanoparticle Patterning. <b>2015</b> , 15, 24409-27		10
270	Cerebrospinal Fluid P-Tau181P: Biomarker for Improved Differential Dementia Diagnosis. <b>2015</b> , 6, 138		38
269	Fluid Biomarkers in Clinical Trials of Alzheimer's Disease Therapeutics. <b>2015</b> , 6, 186		19
268	The past and the future of Alzheimer's disease CSF biomarkers-a journey toward validated biochemical tests covering the whole spectrum of molecular events. <i>Frontiers in Neuroscience</i> , <b>2015</b> , 9, 345	5.1	58
267	Cerebrospinal Fluid in Clinical Neurology. <b>2015</b> ,		13
266	Automatic enumeration of gold nanomaterials at the single-particle level. <b>2015</b> , 87, 2576-81		33
265	Real-time monitoring of enzyme-free strand displacement cascades by colorimetric assays. <b>2015</b> , 7, 5719-25		23
264	Label-free detection of Alzheimer's disease through the ADP3 peptoid recognizing the serum amyloid-beta42 peptide. <b>2015</b> , 51, 718-21		33
263	Amyloid $\beta$ oligomers in Alzheimer's disease pathogenesis, treatment, and diagnosis. <b>2015</b> , 129, 183-206		359
262	Protein misfolding cyclic amplification (PMCA): Current status and future directions. <b>2015</b> , 207, 47-61		28
261	Magnetic resonance beacon to detect intracellular microRNA during neurogenesis. <b>2015</b> , 41, 69-78		14
260	Soluble amyloid- $\beta$ oligomers as synaptotoxins leading to cognitive impairment in Alzheimer's disease. <b>2015</b> , 9, 191		205
259	A sensitive quenched electrochemiluminescent DNA sensor based on the catalytic activity of gold nanoparticle functionalized MoS <sub>2</sub> . <b>2015</b> , 39, 8100-8107		28
258	Gold Nanoparticles for In Vitro Diagnostics. <b>2015</b> , 115, 10575-636		598
257	A versatile microparticle-based immunoaggregation assay for macromolecular biomarker detection and quantification. <b>2015</b> , 10, e0115046		3

256	Application of nanomaterials in the bioanalytical detection of disease-related genes. <b>2015</b> , 74, 113-33	61
255	A sensitive colorimetric strategy for monitoring cerebral $\beta$ -amyloid peptides in AD based on dual-functionalized gold nanoplasmonic particles. <b>2015</b> , 51, 8880-3	19
254	Signal loss due to oligomerization in ELISA analysis of amyloid-beta can be recovered by a novel sample pre-treatment method. <b>2015</b> , 2, 112-23	14
253	Surface layer reflective index changes of Au nanoparticle functionalized porous silicon microcavity for DNA detection. <b>2015</b> , 15, 870-876	7
252	Cancer biomarker detection: recent achievements and challenges. <b>2015</b> , 44, 2963-97	633
251	A novel ultrasensitive electrochemical DNA sensor based on double tetrahedral nanostructures. <b>2015</b> , 71, 434-438	50
250	Nanomaterial-based biosensors using dual transducing elements for solution phase detection. <b>2015</b> , 140, 2916-43	27
249	Alzheimer's Disease and Mechanism-Based Attempts to Enhance Cognition. <b>2015</b> , 193-231	
248	Nanoneuromedicines for degenerative, inflammatory, and infectious nervous system diseases. <b>2015</b> , 11, 751-67	79
247	Neuronal stress signaling and eIF2 $\gamma$ -phosphorylation as molecular links between Alzheimer's disease and diabetes. <b>2015</b> , 129, 37-57	46
246	Electrochemical quantification of the Alzheimer's disease amyloid- $\beta$ (1-40) using amyloid- $\beta$ fibrillization promoting peptide. <b>2015</b> , 6, 7-12	6
245	Horseradish peroxidase and aptamer dual-functionalized nanoprobe for the amplification detection of alpha-methylacyl-CoA racemase. <b>2015</b> , 899, 100-5	10
244	A graphene oxide-based fluorescent platform for selective detection of amyloid- $\beta$ oligomers. <b>2015</b> , 7, 8727-8732	22
243	Studying the relationship between cell cycle and Alzheimer's disease by gold nanoparticle probes. <b>2015</b> , 489, 32-7	6
242	How many biomarkers to discriminate neurodegenerative dementia?. <b>2015</b> , 52, 314-26	14
241	Nanoparticle Probes for the Detection of Cancer Biomarkers, Cells, and Tissues by Fluorescence. <b>2015</b> , 115, 10530-74	702
240	Self-assembled nanocomposite film with tunable enhanced fluorescence for the detection of DNA. <b>2015</b> , 7, 1334-9	14
239	Towards non-invasive diagnostic imaging of early-stage Alzheimer's disease. <b>2015</b> , 10, 91-8	124

238	Cerebrospinal fluid biomarkers in trials for Alzheimer and Parkinson diseases. <b>2015</b> , 11, 41-55	116
237	Biosensors for the Determination of Amyloid-Beta Peptides and their Aggregates with Application to Alzheimer's Disease. <b>2015</b> , 48, 879-893	8
236	An ultrasensitive electrochemical immunosensor based on the catalytical activity of MoS <sub>2</sub> -Au composite using Ag nanospheres as labels. <b>2015</b> , 206, 30-36	90
235	Methods for the Specific Detection and Quantitation of Amyloid- $\beta$ Oligomers in Cerebrospinal Fluid. <b>2016</b> , 53, 53-67	21
234	A label-free electrochemical immunosensor for beta-amyloid detection. <b>2016</b> , 8, 6115-6120	32
233	Citrus bergamia Juice Extract Attenuates $\beta$ Amyloid-Induced Pro-Inflammatory Activation of THP-1 Cells Through MAPK and AP-1 Pathways. <b>2016</b> , 6, 20809	42
232	Reduction of Blood Amyloid- $\beta$ Oligomers in Alzheimer's Disease Transgenic Mice by c-Abl Kinase Inhibition. <b>2016</b> , 54, 1193-1205	14
231	Synthesis of single-crystalline anisotropic gold nano-crystals via chemical vapor deposition. <b>2016</b> , 119, 174301	10
230	A Competitive Bio-Barcode Amplification Immunoassay for Small Molecules Based on Nanoparticles. <b>2016</b> , 6, 38114	35
229	Characterization of protein-conjugating kinetics based on localized surface plasmon resonance of the gold nanoparticle. <b>2016</b> , 49, 434-443	3
228	Multiparameter Analysis-Based Electrochemiluminescent Assay for Simultaneous Detection of Multiple Biomarker Proteins on a Single Interface. <b>2016</b> , 88, 4940-8	30
227	Cerebrospinal Fluid Biomarkers in Alzheimer's Disease. <b>2016</b> , 153-179	
226	Bio-inspired nano tools for neuroscience. <b>2016</b> , 142, 1-22	35
225	Visual Biopsy by Hydrogen Peroxide-Induced Signal Amplification. <b>2016</b> , 88, 10728-10735	13
224	Graphene: Nonreciprocity in Magnetically Biased Graphene at Microwave and Terahertz Frequencies. <b>2016</b> , 268-284	
223	Detecting Alzheimer's disease biomarkers: From antibodies to new bio-mimetic receptors and their application to established and emerging bioanalytical platforms - A critical review. <b>2016</b> , 940, 21-37	36
222	Alzheimer's Disease Cerebrospinal Fluid (CSF) Biomarkers. <b>2016</b> , 139-180	3
221	Update on ultrasensitive technologies to facilitate research on blood biomarkers for central nervous system disorders. <b>2016</b> , 3, 98-102	47

220	Facile and sensitive detection of influenza viruses using SERS antibody probes. <b>2016</b> , 6, 84415-84419	18
219	Application of nanomedicine for crossing the blood-brain barrier: Theranostic opportunities in multiple sclerosis. <b>2016</b> , 13, 603-19	27
218	One-pot green synthesis of anisotropic silver nanoparticles. <b>2016</b> , 3, 1259-1264	16
217	Cerebrospinal fluid biomarkers in Alzheimer's and Parkinson's diseases-From pathophysiology to clinical practice. <b>2016</b> , 31, 836-47	38
216	Anti-Amyloid- $\beta$ Immunotherapy for Alzheimer's Disease. <b>2016</b> , 193-226	6
215	Fluid Biomarkers and Diagnostics. <b>2016</b> , 565-587	
214	Oligonucleotide-based biosensors for in vitro diagnostics and environmental hazard detection. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 2383-406	4.4 13
213	Quantitative nanoimmunosensor based on dark-field illumination with enhanced sensitivity and on-off switching using scattering signals. <b>2016</b> , 79, 709-14	5
212	CSF biomarkers in neurodegenerative and vascular dementias. <b>2016</b> , 138-140, 36-53	27
211	Nano-biosensors to detect beta-amyloid for Alzheimer's disease management. <b>2016</b> , 80, 273-287	112
210	Improving drug delivery technology for treating neurodegenerative diseases. <b>2016</b> , 13, 1029-43	22
209	Highly sensitive gold nanoparticles-based optical sensing of DNA hybridization using bis(8-hydroxyquinoline-5-solphonate)cerium(III) chloride as a novel fluorescence probe. <b>2016</b> , 118, 356-362	16
208	Green technology for durable finishing of viscose fibers via self-formation of AuNPs. <b>2017</b> , 96, 697-705	52
207	Multivalent foldamer-based affinity assay for selective recognition of A $\beta$ oligomers. <b>2017</b> , 960, 131-137	5
206	Detection of A $\beta$ oligomers based on magnetic-field-assisted separation of aptamer-functionalized FeO magnetic nanoparticles and BaYF:Yb,Er nanoparticles as upconversion fluorescence labels. <b>2017</b> , 170, 350-357	30
205	Graphitic nanocapsules: design, synthesis and bioanalytical applications. <b>2017</b> , 9, 10529-10543	8
204	Nucleic acid based polymer and nanoparticle conjugates: Synthesis, properties and applications. <b>2017</b> , 88, 136-185	22
203	A Two-Stage Dissociation System for Multilayer Imaging of Cancer Biomarker-Synergic Networks in Single Cells. <b>2017</b> , 56, 4802-4805	37

202	A Two-Stage Dissociation System for Multilayer Imaging of Cancer Biomarker-Synergic Networks in Single Cells. <b>2017</b> , 129, 4880-4883	7
201	Bioconjugated Nanoparticles for Biosensing, in Vivo Imaging, and Medical Diagnostics. <b>2017</b> , 89, 1015-1031	102
200	Single-Molecule Fluorescence Resonance Energy Transfer Studies of $\beta$ -Amyloid Clusters in Physiological Solutions. <b>2017</b> , 297-311	
199	Drug Delivery to the Brain across the Blood-Brain Barrier Using Nanomaterials. <b>2017</b> , 13, 1701921	97
198	Role of membrane GM1 on early neuronal membrane actions of A $\beta$ during onset of Alzheimer's disease. <b>2017</b> , 1863, 3105-3116	16
197	The conformational epitope for a new A $\beta$ 2 protofibril-selective antibody partially overlaps with the peptide N-terminal region. <b>2017</b> , 143, 736-749	13
196	Universal Ratiometric Photoelectrochemical Bioassay with Target-Nucleotide Transduction-Amplification and Electron-Transfer Tunneling Distance Regulation Strategies for Ultrasensitive Determination of microRNA in Cells. <b>2017</b> , 89, 9445-9451	60
195	An ultrasensitive enzyme-free electrochemical immunosensor based on redox cycling amplification using methylene blue. <b>2017</b> , 142, 3492-3499	29
194	Plasmonic Vertically Coupled Complementary Antennas for Dual-Mode Infrared Molecule Sensing. <b>2017</b> , 11, 8034-8046	30
193	Emerging nanotechnology based strategies for diagnosis and therapeutics of urinary tract infections: A review. <b>2017</b> , 249, 53-65	31
192	Advances in Alzheimer's Diagnosis and Therapy: The Implications of Nanotechnology. <b>2017</b> , 35, 937-953	87
191	Neuromolecular imaging, a nanobiotechnology for Parkinson's disease: advancing pharmacotherapy for personalized medicine. <b>2017</b> , 124, 57-78	8
190	Is Alzheimer's disease a Type 3 Diabetes? A critical appraisal. <b>2017</b> , 1863, 1078-1089	257
189	Metal Nanoparticles in Nanomedicine: Advantages and Scope. <b>2017</b> , 121-168	3
188	Applications of Metal Nanoparticles in Medicine/Metal Nanoparticles as Anticancer Agents. <b>2017</b> , 169-190	4
187	The Role of Reactive Oxygen Species (ROS) in the Biological Activities of Metallic Nanoparticles. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3 417
186	Effects of Acute Toluene Toxicity on Different Regions of Rabbit Brain. <b>2017</b> , 2017, 2805370	10
185	Nanotechnology in Clinical and Translational Research. <b>2017</b> , 191-205	

184	DNA metallization: principles, methods, structures, and applications. <b>2018</b> , 47, 4017-4072		108
183	Gold Nanoparticles Stabilized by Single Tripodal Ligands. <b>2018</b> , 35, 1800015		6
182	Signal Amplified Gold Nanoparticles for Cancer Diagnosis on Paper-Based Analytical Devices. <b>2018</b> , 3, 174-182		55
181	Biosensors for Alzheimer's disease biomarker detection: A review. <b>2018</b> , 147, 13-24		63
180	An acute functional screen identifies an effective antibody targeting amyloid- $\beta$ oligomers based on calcium imaging. <b>2018</b> , 8, 4634		6
179	Mesoporous Silica and Organosilica Nanoparticles: Physical Chemistry, Biosafety, Delivery Strategies, and Biomedical Applications. <b>2018</b> , 7, 1700831		306
178	Amyloid $\beta$ oligomers (A $\beta$ O) in Alzheimer's disease. <b>2018</b> , 125, 177-191		72
177	Alzheimer's disease as oligomeropathy. <b>2018</b> , 119, 57-70		67
176	Nanotechnology in Personalized Medicine: A Promising Tool for Alzheimer's Disease Treatment. <i>Current Medicinal Chemistry</i> , <b>2018</b> , 25, 4602-4615	4-3	12
175	Fiber Optic Plasmonic Sandwich Immunosensor: Influence of AuNP Label Size and Concentration. <b>2018</b> ,		2
174	Triggering microglia through toll-like receptor 2 pathway induced interferon $\beta$ expression in cell and animal model of Alzheimer's disease. <b>2018</b> , 29, 1456-1462		7
173	Stress Biomarkers in Biological Fluids and Their Point-of-Use Detection. <b>2018</b> , 3, 2025-2044		89
172	Ultrasensitive detection of T-2 toxin in food based on bio-barcode and rolling circle amplification. <b>2018</b> , 1043, 98-106		24
171	Histone-Mimetic Gold Nanoparticles as Versatile Scaffolds for Gene Transfer and Chromatin Analysis. <b>2018</b> , 29, 3691-3704		5
170	Efficient biosensing through 1D silver nanostructured devices using plasmonic effect. <b>2018</b> , 29, 385501		6
169	Challenges for Alzheimer's Disease Therapy: Insights from Novel Mechanisms Beyond Memory Defects. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 37	5-1	77
168	Nanomedicine applications in women's health: state of the art. <b>2018</b> , 13, 1963-1983		11
167	Targeted Nanoparticle Binding to Hydroxyapatite in a High Serum Environment for Early Detection of Heart Disease. <b>2018</b> , 1, 4927-4939		4

166	Application of nanodiagnostics and nanotherapy to CNS diseases. <b>2018</b> , 13, 2341-2371		22
165	The Amyloid- $\beta$ Oligomer Hypothesis: Beginning of the Third Decade. <b>2018</b> , 64, S567-S610		339
164	Nanoparticles With a Specific Size and Surface Charge Promote Disruption of the Secondary Structure and Amyloid-Like Fibrillation of Human Insulin Under Physiological Conditions. <b>2019</b> , 7, 480		15
163	Ultrasensitive Detection of Amyloid- $\beta$ Using Cellular Prion Protein on the Highly Conductive Au Nanoparticles-Poly(3,4-ethylene dioxythiophene)-Poly(thiophene-3-acetic acid) Composite Electrode. <b>2019</b> , 91, 11259-11265		23
162	Alzheimer's disease: pathogenesis, diagnostics, and therapeutics. <b>2019</b> , 14, 5541-5554		232
161	Alzheimer Disease Pathogenesis: Insights From Molecular and Cellular Biology Studies of Oligomeric A $\beta$ and Tau Species. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 659	5.1	122
160	Early mechanisms of amyloid fibril nucleation in model and disease-related proteins. <b>2019</b> , 1867, 140264		9
159	Homomeric and Heteromeric A $\beta$ Species Exist in Human Brain and CSF Regardless of Alzheimer's Disease Status and Risk Genotype. <b>2019</b> , 12, 176		4
158	Signal Enhancement of Silicon Nanowire Field-Effect Transistor Immunosensors by RNA Aptamer. <b>2019</b> , 4, 14765-14771		17
157	Discussion on Advanced Targeted Nanomedical Application Scenarios for Treatment of Some Chronic Diseases. <b>2019</b> , 125-143		1
156	Nanotherapeutics Engineered to Cross the Blood-Brain Barrier for Advanced Drug Delivery to the Central Nervous System. <b>2019</b> , 73, 8-18		23
155	Functional Titanium Carbide MXenes-Loaded Entropy-Driven RNA Explorer for Long Noncoding RNA PCA3 Imaging in Live Cells. <b>2019</b> , 91, 8622-8629		26
154	Bio-barcode detection technology and its research applications: A review. <b>2019</b> , 20, 23-32		18
153	Label-Free Optical Detection of Multiple Biomarkers in Sweat, Plasma, Urine, and Saliva. <b>2019</b> , 4, 1346-1357		28
152	Human cerebrospinal fluid 6E10-immunoreactive protein species contain amyloid precursor protein fragments. <b>2019</b> , 14, e0212815		4
151	Properties of Quantum Dots and Their Biological Applications. <b>2019</b> , 21-45		
150	Programmable Atom Equivalents: Atomic Crystallization as a Framework for Synthesizing Nanoparticle Superlattices. <b>2019</b> , 15, e1805424		19
149	The Pathway to Intelligence: Using Stimuli-Responsive Materials as Building Blocks for Constructing Smart and Functional Systems. <b>2019</b> , 31, e1804540		105

148	Nanoparticle formulations in the diagnosis and therapy of Alzheimer's disease. <b>2019</b> , 130, 515-526	54
147	Introduction: Alzheimer's Disease Pathology and Therapeutics. <b>2019</b> , 1-6	
146	Metal ion-induced chemiluminescence recovery for highly intensive chemiluminescence bifunctionalized polydopamine nanospheres. <b>2019</b> , 7, 14588-14593	5
145	Nanoneuromedicine for management of neurodegenerative disorder. <b>2019</b> , 49, 477-490	22
144	Chimeric DNA-Functionalized Titanium Carbide MXenes for Simultaneous Mapping of Dual Cancer Biomarkers in Living Cells. <b>2019</b> , 91, 1651-1658	39
143	Kalirin-7 prevents dendritic spine dysgenesis induced by amyloid beta-derived oligomers. <b>2019</b> , 49, 1091-1101	8
142	A novel crosslinking protocol stabilizes amyloid $\beta$ oligomers capable of inducing Alzheimer's-associated pathologies. <b>2019</b> , 148, 822-836	11
141	Prestimulation of Microglia Through TLR4 Pathway Promotes Interferon Beta Expression in a Rat Model of Alzheimer's Disease. <b>2019</b> , 67, 495-503	13
140	Advanced Targeted Nanomedicine. <b>2019</b> ,	2
139	Ultrasensitive detection of staphylococcal enterotoxin B in foodstuff through dual signal amplification by bio-barcode and real-time PCR. <b>2019</b> , 283, 338-344	18
138	Neurotheranostics as personalized medicines. <b>2019</b> , 148, 252-289	36
137	A sensitive electrochemical strategy via multiple amplification reactions for the detection of E. coli O157: H7. <b>2020</b> , 147, 111752	27
136	Recent Advances in Multifunctional Graphitic Nanocapsules for Raman Detection, Imaging, and Therapy. <b>2020</b> , 4, 1900440	10
135	Nonstochastic Protein Counting Analysis for Precision Biomarker Detection: Suppressing Poisson Noise at Ultralow Concentration. <b>2020</b> , 92, 654-658	5
134	The Effect of Nanoparticles on the Structure and Enzymatic Activity of Human Carbonic Anhydrase I and II. <b>2020</b> , 25,	6
133	Nanomaterials for the treatment and diagnosis of Alzheimer's disease: An overview. <b>2020</b> , 20, 100251	37
132	Multifunctional Superparamagnetic Iron Oxide Nanoparticles Conjugated with A $\beta$ Oligomer-Specific scFv Antibody and Class A Scavenger Receptor Activator Show Early Diagnostic Potentials for Alzheimer's Disease. <b>2020</b> , 15, 4919-4932	15
131	Alkyne-Monofunctionalized Gold Nanoparticles as Massive Molecular Building Blocks. <b>2020</b> , 2020, 2325-2334	2

130	Cancer cell-targeted nanoprobe for multilayer imaging of diverse biomarkers and precise photodynamic therapy. <b>2020</b> , 56, 15208-15211		1
129	Nanotechnology-based devices in the treatment for Alzheimer's disease. <b>2020</b> , 241-256		
128	Nanopharmaceuticals: A focus on their clinical translatability. <b>2020</b> , 578, 119098		31
127	Different Approaches to Develop Nanosensors for Diagnosis of Diseases. <i>Advanced Science</i> , <b>2020</b> , 7, 2001476	13.6	14
126	Nanoparticle cellular uptake and intracellular targeting on reactive oxygen species (ROS) in biological activities. <b>2020</b> , 373-395		
125	Insulin fibrillation: toward strategies for attenuating the process. <b>2020</b> , 56, 11354-11373		19
124	Nanobiotechnology and Its Application in Nanomedicine: An Overview. <b>2020</b> , 3-25		1
123	Clinical significance of fluid biomarkers in Alzheimer's Disease. <b>2020</b> , 72, 528-542		11
122	Amyloid Metabolism and Amyloid-Targeting Blood-Based Biomarkers of Alzheimer's Disease. <b>2020</b> , 75, 685-696		4
121	Advances in amyloid beta oligomer detection applications in Alzheimer's disease. <b>2020</b> , 129, 115919		11
120	Application of Nanomaterials in the Diagnosis and Treatment of Genetic Disorders. <b>2020</b> , 125-146		7
119	Progress toward Alzheimer's disease treatment: Leveraging the Achilles' heel of Amyloid oligomers?. <b>2020</b> , 29, 1748-1759		21
118	Applications of Nanomaterials in Human Health. <b>2020</b> ,		5
117	Applications of Nanomaterials in Neurological Diseases, Neuronal Differentiation, Neuronal Protection, and Neurotoxicity. <b>2020</b> , 83-124		1
116	Nanotechnology: A Promising Approach for Delivery of Neuroprotective Drugs. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 494	5.1	61
115	Single-Step, Salt-Aging-Free, and Thiol-Free Freezing Construction of AuNP-Based Bioprobes for Advancing CRISPR-Based Diagnostics. <b>2020</b> , 142, 7506-7513		81
114	Glycated albumin precipitation using aptamer conjugated magnetic nanoparticles. <b>2020</b> , 10, 10716		4
113	Metallic nanoparticulate delivery systems. <b>2020</b> , 279-328		2

112	Nanoengineered biomaterials for neurodegenerative disorders. <b>2020</b> , 713-734	1
111	Chemical sensing platforms for detecting trace-level Alzheimer's core biomarkers. <b>2020</b> , 49, 5446-5472	25
110	Photoelectrochemical Detection of $\beta$ -Amyloid Peptides by a TiO <sub>2</sub> Nanobrush Biosensor. <b>2020</b> , 20, 6248-6255	8
109	Neurodegenerative Disease Diagnostics and Therapy of TiO <sub>2</sub> -Based Nanoparticles. <b>2020</b> , 217-236	
108	Nanoemulsions for targeting the neurodegenerative diseases: Alzheimer's, Parkinson's and Prion's. <b>2020</b> , 245, 117394	29
107	Femtomolar sensing of Alzheimer's tau proteins by water oxidation-coupled photoelectrochemical platform. <b>2020</b> , 154, 112075	12
106	Oligomerization and Conformational Change Turn Monomeric $\beta$ -Amyloid and Tau Proteins Toxic: Their Role in Alzheimer's Pathogenesis. <b>2020</b> , 25,	27
105	Recent advances on functional nucleic acid-based biosensors for detection of food contaminants. <b>2021</b> , 222, 121565	24
104	Dual-functionalized gold nanoparticles probe based bio-barcode immuno-PCR for the detection of glyphosate. <b>2021</b> , 338, 128133	7
103	Dendrimer Architectonics to Treat Cancer and Neurodegenerative Diseases with Implications in Theranostics and Personalized Medicine.. <b>2021</b> , 4, 1115-1139	12
102	Nanoconstructs as a versatile tool for detection and diagnosis of Alzheimer biomarkers. <b>2021</b> , 32, 142002	6
101	Significance of nanosomes for diagnosis of Alzheimer's disease. <b>2021</b> , 499-510	
100	Nanomaterials for bioimaging studies. <b>2021</b> , 19-34	
99	Identification of biomarkers for diagnosing and monitoring therapy in the treatment of neurologic disorders. <b>2021</b> , 291-310	
98	A $\beta$ -Amyloid Biosensor Based on Molecularly Imprinted Poly-Pyrrole for Early Diagnosis of Alzheimer's Disease. <b>2021</b> , 11, 215-228	1
97	In Vitro Applications of Nanoparticles. <i>Nanotechnology in the Life Sciences</i> , <b>2021</b> , 41-69	1.1
96	Fluorescence Resonance Energy Transfer (FRET)-Based ThT Free Sensing of Beta-Amyloid Fibrillation by Carbon Dot-Ag Composites. <b>2021</b> , 16, 863-872	1
95	Systems and application biopsy. <b>2021</b> , 623-712	

94	Quantifying misfolded protein oligomers as drug targets and biomarkers in Alzheimer and Parkinson diseases. <b>2021</b> , 5, 277-294	10
93	Ultrasensitive monitoring strategy of PCR-like levels for zearalenone contamination based DNA barcode. <b>2021</b> , 101, 4490-4497	1
92	Nanomaterial-based Optical and Electrochemical Biosensors for Amyloid beta and Tau: Potential for early diagnosis of Alzheimer's Disease. <b>2021</b> , 21, 175-193	4
91	Alzheimer's Disease: Pathogenesis and Therapeutic interventions. <b>2021</b> ,	3
90	Nanoparticle-based methodologies for targeted drug delivery. <b>2021</b> , 23, 1	5
89	Nanomedicine against Alzheimer's and Parkinson's Disease. <i>Current Pharmaceutical Design</i> , <b>2021</b> , 27, 1507-1545	3-3 3
88	Plasma amyloid- $\beta$ oligomerization assay as a pre-screening test for amyloid status. <b>2021</b> , 13, 133	6
87	Nanotechnology-Based Strategies for Early Diagnosis of Central Nervous System Disorders. <b>2021</b> , 1, 2100008	3
86	Amyloid $\beta$ oligomer selective antibodies for Alzheimer's therapeutics and diagnostics.	
85	A Specialized Nutritional Formulation Prevents Hippocampal Glial Activation and Memory Impairment Induced by Amyloid- $\beta$ Oligomers in Mice. <b>2021</b> , 83, 1113-1124	0
84	Nanomedicine: a socio-technical system. <b>2021</b> , 173, 121066	1
83	Biosensor fabrication with nanomaterials. <b>2021</b> , 31-55	
82	A dopamine metabolite stabilizes neurotoxic amyloid- $\beta$ oligomers. <b>2021</b> , 4, 19	6
81	The Role of Nanomedicine in the Treatment of Neurodegenerative Disorders. <b>2019</b> , 49-63	1
80	Nanotechnology Based Approaches for Neurodegenerative Disorders: Diagnosis and Treatment. <b>2017</b> , 57-87	2
79	Molecules that Disrupt Memory Circuits in Alzheimer's Disease: The Attack on Synapses by A $\beta$ Oligomers (ADDLs). <b>2007</b> , 155-179	7
78	Why Alzheimer's is a Disease of Memory: Synaptic Targeting by Pathogenic A $\beta$ Oligomers (ADDLs). <b>2008</b> , 103-132	4
77	Technology for Biotechnology. <b>2011</b> , 61-73	1

76	Overview of Fibrillar and Oligomeric Assemblies of Amyloidogenic Proteins. <b>2012</b> , 1-36	2
75	The Role of A $\beta$ and Tau Oligomers in the Pathogenesis of Alzheimer's Disease. <b>2012</b> , 135-188	5
74	Sensitive detection of streptomycin in milk using a hybrid signal enhancement strategy of MOF-based bio-bar code and target recycling. <b>2020</b> , 1125, 1-7	15
73	Chapter 2:Chemical and Biological Sensing Using Gold Nanoparticles. <b>2008</b> , 29-59	0
72	Inflammation: major denominator of obesity, Type 2 diabetes and Alzheimer's disease-like pathology?. <b>2020</b> , 134, 547-570	18
71	Single bead affinity detection (SINBAD) for the analysis of protein-protein interactions. <b>2008</b> , 3, e2061	9
70	RNA aptamers generated against oligomeric A $\beta$ 40 recognize common amyloid aptatopes with low specificity but high sensitivity. <b>2009</b> , 4, e7694	43
69	A $\beta$ 0 oligomers identified as a potential biomarker for the diagnosis of Alzheimer's disease. <b>2010</b> , 5, e15725	82
68	Expression and localization of mitochondrial ferritin mRNA in Alzheimer's disease cerebral cortex. <b>2011</b> , 6, e22325	38
67	Evaluating amyloid- $\beta$ oligomers in cerebrospinal fluid as a biomarker for Alzheimer's disease. <b>2013</b> , 8, e66381	93
66	[New biomarkers and drug targets for diagnosis and therapy of Alzheimer's disease (molecular determinants of zinc-dependent oligomerization of $\beta$ amyloid)]. <b>2015</b> , 115, 5-9	4
65	Protein aggregation in the brain: the molecular basis for Alzheimer's and Parkinson's diseases. <b>2008</b> , 14, 451-64	362
64	Key Peptides and Proteins in Alzheimer's Disease. <b>2019</b> , 20, 577-599	14
63	Nanotechnology Based Theranostic Approaches in Alzheimer's Disease Management: Current Status and Future Perspective. <b>2017</b> , 14, 1164-1181	36
62	Targeting Metal Homeostasis as a Therapeutic Strategy for Alzheimer's Disease. 83-98	2
61	A Review on Nanomedicinal and Nanosensing Potential of Nanoparticles. <b>2014</b> , 8, 58-84	4
60	Challenges in understanding the structure/activity relationship of A $\beta$ oligomers. <b>2019</b> , 6, 1-22	2
59	Changing the course of Alzheimer's disease: anti-amyloid disease-modifying treatments on the horizon. <b>2007</b> , 9, 32-41	25

- 58 Revisiting the dilution factor as vital parameter for sensitivity of ELISA assay in CSF and Plasma. **2015**, 22, 37-42 4
- 57 Papers of Note. **2005**, 2005, nw6-nw6
- 56 Chapter 8 Biosensing with plasmonic nanoparticles. **2006**, 219-270
- 55 Nanomedicine: current approach to diagnosis and treatment of diseases and safety issues. **2008**, 5-13 2
- 54 Alzheimer's Disease-Related Mechanisms of Neuronal Dysfunction and Degeneration: Studies in Human Cortical Neurons. **2008**, 183-202
- 53 Bar Coding Platforms for Nucleic Acid and Protein Detection. **2009**, 315-338
- 52 Introducing Nanoneuroscience as a Distinct Discipline. **2009**, 1-34
- 51 Biomolecule-Nanoparticle Hybrid Systems. 139
- 50 The Nature of Nanotechnology. 3 0
- 49 Nanomedicine and Neurodegenerative Disorders. **2011**,
- 48 Biological Targeting and Activity of Pre-fibrillar A $\beta$  Assemblies. **2012**, 103-133
- 47 Nanoparticle-Based Immunoassays and their Applications in Nervous System Biomarker Detection. **2012**, 17-37
- 46 Emerging Principles and Biomarkers in In Vitro Diagnostics for Alzheimer's Disease. **2012**, 87-102
- 45 Peptidome analysis: tools and technologies. **2013**, 172-202
- 44 Insulin Receptor and the Pathophysiology of Alzheimer Disease. 31-50
- 43 Nanomedicines for Nervous System Diseases. **2014**, 2125-2156
- 42 Alzheimer's Disease and Other Neurodegenerative Disorders. **2015**, 329-351
- 41 Enhanced neuronal degradation of amyloid- $\beta$  oligomers allows synapse regeneration. *Neural Regeneration Research*, **2015**, 10, 700-1 4.5 1

40 Immunotherapy and Vaccines. **2016**, 441-464

39 Memeli Tıbbi ve Normal Hıcre Hatlarıda Nanopartikül Uygulamaları. *Arsiv Kaynak Tarama Dergisi*, **2018**, 27, 136-174 0.1 0

38 Diyet Yağları Alzheimer Hastalığı Patolojisi Üzerine Potansiyel Koruyucu Etkileri. *Sağlık Bilimleri Dergisi* 0

37 Nanotechnology in Early Detection and Treatment of Amyloidosis. *Nanotechnology in the Life Sciences*, **2020**, 185-207 1.1

36 Recent Advances in Nanotherapeutic Interventions for the Treatment of Alzheimer's Disease. *Current Pharmaceutical Design*, **2020**, 26, 2257-2279 3.3 0

35 Nanotechnology: Application in Biology and Medicine. **2020**, 1-18

34 Drug delivery nanosystems for neural regenerative medicine. **2020**, 89-122

33 Ultrasensitive measurement of protein and nucleic Acid biomarkers for earlier disease detection and more effective therapies. *Biotechnology Healthcare*, **2006**, 3, 35-40 7

32 Alzheimer's Toxic Amyloid Beta Oligomers: Unwelcome Visitors to the Na/K ATPase alpha3 Docking Station. *Yale Journal of Biology and Medicine*, **2017**, 90, 45-61 2.4 17

31 Alzheimer's Pathogenesis, Metal-Mediated Redox Stress, and Potential Nanotheranostics. **2019**, 7, 547-558

30 Bio-nano Interface and Its Potential Application in Alzheimer's Disease. **2022**, 209-224 0

29 The Therapeutic and Diagnostic Potential of Amyloid  $\beta$  Oligomers Selective Antibodies to Treat Alzheimer's Disease.. *Frontiers in Neuroscience*, **2021**, 15, 768646 5.1 0

28 Biomarkers used in Alzheimer's disease diagnosis, treatment, and prevention.. *Ageing Research Reviews*, **2021**, 74, 101544 12 3

27 Nano-Biosensors from Agriculture to Nextgen Diagnostic Tools. *Current Nanomaterials*, **2022**, 07, 1.3

26 Size and macromolecule stabilizer-dependent performance of gold colloids in immuno-PCR.. *Analytical and Bioanalytical Chemistry*, **2022**, 414, 2205 4.4 0

25 Progress of Nanotechnology-Based Detection and Treatment of Alzheimer's Disease Biomarkers. **2022**, 47-88

24 Metal nanoparticles for neurodegenerative diseases. **2022**, 183-206 0

23 An Essential Role for Alzheimer's-Linked Amyloid Beta Oligomers in Neurodevelopment: Transient Expression of Multiple Proteoforms during Retina Histogenesis.. *International Journal of Molecular Sciences*, **2022**, 23, 6.3 1

22	Multifunctional Gold Nanoparticles for Improved Diagnostic and Therapeutic Applications: A Review. <i>Nanoscale Research Letters</i> , <b>2021</b> , 16, 174	5	9
21	Nanodelivery of nucleic acids.. <i>Nature Reviews Methods Primers</i> , <b>2022</b> , 2,		11
20	Ultrasensitive immuno-PCR for detecting aflatoxin B1 based on magnetic separation and barcode DNA. <i>Food Control</i> , <b>2022</b> , 109028	6.2	1
19	Data_Sheet_1.pdf. <b>2019</b> ,		
18	Applications of Gold Nanoparticles in Brain Diseases across the Blood-Brain Barrier.. <i>Current Medicinal Chemistry</i> , <b>2022</b> , 29,	4.3	
17	AAV-mediated neuronal expression of a scFv antibody selective for A $\beta$ oligomers protects synapses and rescues memory in Alzheimer models.		
16	Diagnostic and Therapeutic Systems Using Nanomaterials. <b>2022</b> , 1-56		
15	Delivering the Promise of Gene Therapy with Nanomedicines in Treating Central Nervous System Diseases. <i>Advanced Science</i> , 2201740	13.6	2
14	Functional Principal of Nanotechnology in Clinical Research. <b>2022</b> , 33-73		
13	Nanotechnology for the diagnosis and treatment of Alzheimer's disease: A bibliometric analysis. <b>2022</b> , 47, 101654		0
12	AAV-mediated neuronal expression of a scFv antibody selective for A $\beta$ oligomers protects synapses and rescues memory in Alzheimer models. <b>2022</b> ,		0
11	Non-viral nucleic acid delivery approach: A boon for state-of-the-art gene delivery. <b>2023</b> , 80, 104152		0
10	TRPV4 mRNA is elevated in the caudate nucleus with NPH but not in Alzheimer's disease. 13,		0
9	Nanomaterial-based Clinical Testing and Diagnostic Technologies. 40, 132-141		0
8	Recent advances in plasmon-enhanced luminescence for biosensing and bioimaging. <b>2023</b> , 1254, 341086		0
7	DNAzyme-driven tripedal DNA walker triggered hybridization chain reaction for label-free electrochemical detection of Alzheimer's tau protein. <b>2023</b> , 384, 133656		0
6	Plantainoside B in <i>Bacopa monniera</i> ; Binds to A $\beta$ Aggregates Attenuating Neuronal Damage and Memory Deficits Induced by A $\beta$ <b>2023</b> , 46, 320-333		0
5	Nanotechnology to the Rescue: Therapeutic Strategies Based on Brown Algae for Neurodegenerative Diseases. <b>2023</b> , 13, 1883		1

- 4 Brain region-specific myelinogenesis is not directly linked to amyloid- $\beta$  in APP/PS1 transgenic mice. **2023**, 362, 114344
- 3 Glucometer-based biosensor for the determination of ractopamine in animal-derived foods using rolling circle amplification. **2023**, 190,
- 2 A new class of monoclonal antibodies selectively targets and triggers deposition of A $\beta$  protofibrils.
- 1 Antibodies Raised Against an A $\beta$  Oligomer Mimic Recognize Pathological Features in Alzheimer's Disease and Associated Amyloid-Disease Brain Tissue.