

Mohammad Hasanzadeh

List of Publications by Citations

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276
papers

6,422
citations

45
h-index

60
g-index

281
ext. papers

7,781
ext. citations

6.2
avg, IF

6.92
L-index

#	Paper	IF	Citations
276	Nanomaterial-based biosensors for detection of pathogenic virus. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 97, 445-457	14.6	148
275	Anti-bacterial activity of graphene oxide as a new weapon nanomaterial to combat multidrug-resistance bacteria. <i>Materials Science and Engineering C</i> , 2017 , 74, 568-581	8.3	145
274	Iron and iron-oxide magnetic nanoparticles as signal-amplification elements in electrochemical biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 72, 1-9	14.6	134
273	Mesoporous silica-based materials for use in biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 33, 117-129	14.6	110
272	Bone tissue engineering using silica-based mesoporous nanobiomaterials:Recent progress. <i>Materials Science and Engineering C</i> , 2015 , 55, 401-9	8.3	101
271	Early stage screening of breast cancer using electrochemical biomarker detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 91, 67-76	14.6	91
270	Graphene and its nanostructure derivatives for use in bone tissue engineering: Recent advances. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 1250-75	5.4	89
269	Graphene quantum dot modified glassy carbon electrode for the determination of doxorubicin hydrochloride in human plasma. <i>Journal of Pharmaceutical Analysis</i> , 2016 , 6, 235-241	14	83
268	Aptamer-based assay of biomolecules: Recent advances in electro-analytical approach. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 89, 119-132	14.6	75
267	Development of electrochemical biosensors for tumor marker determination towards cancer diagnosis: Recent progress. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 118, 73-88	14.6	70
266	Nanomaterials for use in immunosensing of carcinoembryonic antigen (CEA): Recent advances. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 86, 185-205	14.6	69
265	Poly arginine-graphene quantum dots as a biocompatible and non-toxic nanocomposite: Layer-by-layer electrochemical preparation, characterization and non-invasive malondialdehyde sensory application in exhaled breath condensate. <i>Materials Science and Engineering C</i> , 2017 , 75, 247-258	8.3	68
264	Advanced nanomaterials for use in electrochemical and optical immunoassays of carcinoembryonic antigen. A review. <i>Mikrochimica Acta</i> , 2017 , 184, 389-414	5.8	67
263	Nano-materials for use in sensing of salmonella infections: Recent advances. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 1050-1064	11.8	66
262	The promising future of nano-antioxidant therapy against environmental pollutants induced-toxicities. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 103, 1018-1027	7.5	63
261	Mesoporous silica-based materials for use in electrochemical enzyme nanobiosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 40, 106-118	14.6	63
260	Graphene quantum dots decorated with magnetic nanoparticles: Synthesis, electrodeposition, characterization and application as an electrochemical sensor towards determination of some amino acids at physiological pH. <i>Materials Science and Engineering C</i> , 2016 , 68, 814-830	8.3	62

259	Dendrimer-encapsulated and cored metal nanoparticles for electrochemical nanobiosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 53, 137-149	14.6	62
258	Mesoporous silica materials for use in electrochemical immunosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 45, 93-106	14.6	62
257	A new kinetic-mechanistic approach to elucidate electrooxidation of doxorubicin hydrochloride in unprocessed human fluids using magnetic graphene based nanocomposite modified glassy carbon electrode. <i>Materials Science and Engineering C</i> , 2016 , 61, 638-50	8.3	61
256	Current advancement in electrochemical analysis of neurotransmitters in biological fluids. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 86, 107-121	14.6	60
255	Recent advances on aptamer-based biosensors to detection of platelet-derived growth factor. <i>Biosensors and Bioelectronics</i> , 2018 , 113, 58-71	11.8	58
254	Biosensing based on field-effect transistors (FET): Recent progress and challenges. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 133, 116067	14.6	58
253	An innovative immunosensor for ultrasensitive detection of breast cancer specific carbohydrate (CA 15-3) in unprocessed human plasma and MCF-7 breast cancer cell lysates using gold nanoparticle electrochemically assembled onto thiolated graphene quantum dots. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 1008-1017	7.9	57
252	Peptide based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 107, 1-20	14.6	55
251	Highly sensitive immunosensing of prostate specific antigen using poly cysteine capped by graphene quantum dots and gold nanoparticle: A novel signal amplification strategy. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 522-532	7.9	55
250	Electrochemical nanobiosensing in whole blood: Recent advances. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 80, 167-176	14.6	54
249	Targeting and sensing of some cancer cells using folate bioreceptor functionalized nitrogen-doped graphene quantum dots. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1021-1034	7.9	54
248	Cobalt hydroxide nanoparticles modified glassy carbon electrode as a biosensor for electrooxidation and determination of some amino acids. <i>Analytical Biochemistry</i> , 2009 , 389, 130-7	3.1	52
247	Aptamer based assay of platelet-derived growth factor in unprocessed human plasma sample and MCF-7 breast cancer cell lysates using gold nanoparticle supported β -cyclodextrin. <i>International Journal of Biological Macromolecules</i> , 2018 , 108, 69-80	7.9	51
246	Highly sensitive and specific cytosensing of HT 29 colorectal cancer cells using folic acid functionalized-KCC-1 nanoparticles. <i>Biosensors and Bioelectronics</i> , 2019 , 132, 122-131	11.8	50
245	Pharmacogenomic study using bio- and nanobioelectrochemistry: Drug-DNA interaction. <i>Materials Science and Engineering C</i> , 2016 , 61, 1002-17	8.3	50
244	Electrochemical nano-immunosensing of effective cardiac biomarkers for acute myocardial infarction. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 49, 20-30	14.6	50
243	What are the reasons for low use of graphene quantum dots in immunosensing of cancer biomarkers?. <i>Materials Science and Engineering C</i> , 2017 , 71, 1313-1326	8.3	49
242	Polystyrene-graphene oxide modified glassy carbon electrode as a new class of polymeric nanosensors for electrochemical determination of histamine. <i>Chinese Chemical Letters</i> , 2014 , 25, 655-658	8.1	49

241	Mesoporous silica (MCM-41)-Fe ₂ O ₃ as a novel magnetic nanosensor for determination of trace amounts of amino acids. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 108, 52-9	6	49
240	Graphene based scaffolds on bone tissue engineering. <i>Bioengineered</i> , 2018 , 9, 38-47	5.7	49
239	Ultrasensitive electrochemical immunosensing of tumor suppressor protein p53 in unprocessed human plasma and cell lysates using a novel nanocomposite based on poly-cysteine/graphene quantum dots/gold nanoparticle. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 1348-1363	7.9	48
238	Electrochemical biosensing using hydrogel nanoparticles. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 62, 11-19	14.6	47
237	(Fe ₃ O ₄)-graphene oxide as a novel magnetic nanomaterial for non-enzymatic determination of phenylalanine. <i>Materials Science and Engineering C</i> , 2013 , 33, 4624-32	8.3	47
236	(Fe ₂ O ₃)-MCM-41-SO ₃ H as a novel magnetic nanocatalyst for the synthesis of N-aryl-2-amino-1,6-naphthyridine derivatives. <i>Catalysis Communications</i> , 2012 , 25, 83-91	3.2	47
235	Electrochemical behavior of atenolol, carvedilol and propranolol on copper-oxide nanoparticles. <i>Electrochimica Acta</i> , 2011 , 58, 336-347	6.7	47
234	Recent advances in nanostructures and nanocrystals as signal-amplification elements in electrochemical cytosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 72, 123-140	14.6	46
233	Integration of β-cyclodextrin into graphene quantum dot nano-structure and its application towards detection of Vitamin C at physiological pH: A new electrochemical approach. <i>Materials Science and Engineering C</i> , 2016 , 67, 666-674	8.3	46
232	Immunosensing of breast cancer prognostic marker in adenocarcinoma cell lysates and unprocessed human plasma samples using gold nanostructure coated on organic substrate. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1082-1089	7.9	45
231	Ag/polyaniline nanocomposites: Synthesize, characterization, and application to the detection of dopamine and tyrosine. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 2780-2789	2.9	44
230	Probing the specific binding of folic acid to folate receptor using amino-functionalized mesoporous silica nanoparticles for differentiation of MCF 7 tumoral cells from MCF 10A. <i>Biosensors and Bioelectronics</i> , 2018 , 115, 61-69	11.8	44
229	Two dimension (2-D) graphene-based nanomaterials as signal amplification elements in electrochemical microfluidic immune-devices: Recent advances. <i>Materials Science and Engineering C</i> , 2016 , 68, 482-493	8.3	43
228	A novel electroanalytical method for simultaneous detection of two neurotransmitter dopamine and serotonin in human serum. <i>Journal of Neuroscience Methods</i> , 2013 , 219, 52-60	3	43
227	Ensuring food safety using aptamer based assays: Electroanalytical approach. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 94, 77-94	14.6	43
226	Advances in detection of fastidious bacteria: From microscopic observation to molecular biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 113, 157-171	14.6	43
225	Recent trends in rapid detection of influenza infections by bio and nanobiosensor. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 98, 201-215	14.6	43
224	Graphene quantum dot functionalized by chitosan and beta-cyclodextrin as a new support nanocomposite material for efficient methanol electrooxidation. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 171-186	5.7	42

223	An innovative immunosensor for detection of tumor suppressor protein p53 in unprocessed human plasma and cancer cell lysates. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 1337-1348	7.9	42
222	Electrochemical and photoelectrochemical nano-immunesensing using origami paper based method. <i>Materials Science and Engineering C</i> , 2016 , 61, 979-1001	8.3	41
221	Poly-dopamine-beta-cyclodextrin: A novel nanobiopolymer towards sensing of some amino acids at physiological pH. <i>Materials Science and Engineering C</i> , 2016 , 69, 343-57	8.3	40
220	Electrochemical biosensing using N-GQDs: Recent advances in analytical approach. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 105, 484-491	14.6	40
219	Proline dehydrogenase-entrapped mesoporous magnetic silica nanomaterial for electrochemical biosensing of L-proline in biological fluids. <i>Enzyme and Microbial Technology</i> , 2017 , 105, 64-76	3.8	39
218	Sensing of doxorubicin hydrochloride using graphene quantum dot modified glassy carbon electrode. <i>Journal of Molecular Liquids</i> , 2016 , 221, 354-357	6	39
217	Room-temperature ionic liquid-based electrochemical nanobiosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 41, 58-74	14.6	39
216	Preparation of a new electrochemical sensor based on iron (III) complexes modified carbon paste electrode for simultaneous determination of mefenamic acid and indomethacin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 92, 91-7	6	39
215	Graphene quantum dot as an electrically conductive material toward low potential detection: a new platform for interface science. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 6488-6495	2.1	38
214	Optical bio(sensing) using nitrogen doped graphene quantum dots: Recent advances and future challenges. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 108, 110-121	14.6	38
213	Current advancement on diagnosis of ovarian cancer using biosensing of CA 125 biomarker: Analytical approaches. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 108, 1-12	14.6	38
212	Current advancement in immunosensing of p53 tumor suppressor protein based on nanomaterials: Analytical approach. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 89, 13-20	14.6	37
211	Electrochemical quantification of some water soluble vitamins in commercial multi-vitamin using poly-amino acid capped by graphene quantum dots nanocomposite as dual signal amplification elements. <i>Analytical Biochemistry</i> , 2017 , 539, 70-80	3.1	37
210	Recent advances on the DNA-based electrochemical biosensing of cancer biomarkers: Analytical approach. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 119, 115609	14.6	37
209	Non-invasive diagnosis of oral cancer: The role of electro-analytical methods and nanomaterials. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 91, 125-137	14.6	36
208	(Fe ₃ O ₄)-graphene oxide-SO ₃ H as a new magnetic nanocatalyst for electro-oxidation and determination of selected parabens. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 4909-16	1.3	36
207	Deposition of new thia-containing Schiff-base iron (III) complexes onto carbon nanotube-modified glassy carbon electrodes as a biosensor for electrooxidation and determination of amino acids. <i>Electrochimica Acta</i> , 2011 , 56, 1051-1061	6.7	36
206	Ni(OH) ₂ and NiO Nanostructures: Synthesis, Characterization and Electrochemical Performance. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 2613-2618	1.2	36

205	A novel paper based immunoassay of breast cancer specific carbohydrate (CA 15.3) using silver nanoparticles-reduced graphene oxide nano-ink technology: A new platform to construction of microfluidic paper-based analytical devices (PADs) towards biomedical analysis. <i>Microchemical Journal</i> , 2019 , 146, 345-358	4.8	36
204	Bioassay of saliva proteins: The best alternative for conventional methods in non-invasive diagnosis of cancer. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 1246-1255	7.9	36
203	Electrochemical sensing of doxorubicin in unprocessed whole blood, cell lysate, and human plasma samples using thin film of poly-arginine modified glassy carbon electrode. <i>Materials Science and Engineering C</i> , 2017 , 77, 790-802	8.3	35
202	Determination of lisinopril using β -cyclodextrin/graphene oxide-SO ₃ H modified glassy carbon electrode. <i>Journal of Applied Electrochemistry</i> , 2014 , 44, 821-830	2.6	35
201	Electrochemical monitoring of aflatoxin M1 in milk samples using silver nanoparticles dispersed on β -cyclodextrin-GQDs nanocomposite. <i>Journal of Molecular Recognition</i> , 2018 , 31, e2699	2.6	34
200	Cross-linked chitosan/thiolated graphene quantum dots as a biocompatible polysaccharide towards aptamer immobilization. <i>International Journal of Biological Macromolecules</i> , 2019 , 123, 1091-1105	7.9	34
199	Ultrasensitive immunoassay of carcinoma antigen 125 in untreated human plasma samples using gold nanoparticles with flower like morphology: A new platform in early stage diagnosis of ovarian cancer and efficient management. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 913-925	7.9	33
198	MCM-41-NH ₂ as an advanced nanocatalyst for electrooxidation and determination of amino acids. <i>Catalysis Communications</i> , 2012 , 19, 21-27	3.2	33
197	Aptamer-based biosensor for detection of phenylalanine at physiological pH. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 172, 2070-80	3.2	31
196	Paper based immunosensing of ovarian cancer tumor protein CA 125 using novel nano-ink: A new platform for efficient diagnosis of cancer and biomedical analysis using microfluidic paper-based analytical devices (PAD). <i>International Journal of Biological Macromolecules</i> , 2019 , 138, 744-754	7.9	30
195	β -Cyclodextrin/graphene oxide grafted sulfonic acid: Application for electro-oxidation and determination of cadaverine in fish samples. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 714-715, 79-84 ⁴⁻¹		30
194	Early stage diagnosis of programmed cell death (apoptosis) using electroanalysis: Nanomaterial and methods overview. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 93, 199-211	14.6	30
193	The potential of nanomaterials in theranostics of oral squamous cell carcinoma: Recent progress. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 116, 167-176	14.6	29
192	Ultrasensitive bioassay of epitope of Mucin-16 protein (CA 125) in human plasma samples using a novel immunoassay based on silver conductive nano-ink: A new platform in early stage diagnosis of ovarian cancer and efficient management. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 1255-1265	7.9	29
191	Aptamer-based assay for monitoring genetic disorder phenylketonuria (PKU). <i>International Journal of Biological Macromolecules</i> , 2018 , 116, 735-743	7.9	29
190	Silica-based mesoporous nanobiomaterials as promoter of bone regeneration process. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3703-16	5.4	28
189	Electro-oxidation of ascorbic acid catalyzed on cobalt hydroxide-modified glassy carbon electrode. <i>Journal of the Serbian Chemical Society</i> , 2009 , 74, 581-593	0.9	28
188	Kinetic study of electrocatalytic oxidation of carbohydrates on cobalt hydroxide modified glassy carbon electrode. <i>Journal of the Brazilian Chemical Society</i> , 2009 , 20, 141-151	1.5	27

187	(Nano)-materials and methods of signal enhancement for genosensing of p53 tumor suppressor protein: Novel research overview. <i>Materials Science and Engineering C</i> , 2017 , 76, 1424-1439	8.3	26
186	Effect of pyrite content of feed and configuration of locked particles on rougher flotation of copper in low and high pyritic ore types. <i>International Journal of Mining Science and Technology</i> , 2018 , 28, 167-176	7.1	26
185	Magnetic nanoparticles incorporated on functionalized mesoporous silica: an advanced electrochemical sensor for simultaneous determination of amiodarone and atenolol. <i>RSC Advances</i> , 2014 , 4, 4710-4717	3.7	26
184	Optical immunosensing of effective cardiac biomarkers on acute myocardial infarction. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 51, 158-168	14.6	26
183	Solvothermal synthesis of Cd(OH) ₂ and CdO nanocrystals and application as a new electrochemical sensor for simultaneous determination of norfloxacin and lomefloxacin. <i>Superlattices and Microstructures</i> , 2012 , 52, 885-893	2.8	26
182	A New Kinetic-Mechanistic Approach to Elucidate Formaldehyde Electrooxidation on Copper Electrode. <i>Electroanalysis</i> , 2010 , 22, 168-176	3	26
181	Immobilization of phenylalanine-dehydrogenase on nano-sized polytaurine: a new platform for application of nano-polymeric materials on enzymatic biosensing technology. <i>Materials Science and Engineering C</i> , 2014 , 42, 368-73	8.3	25
180	A study of the electrocatalytic oxidation of cyclohexanol on copper electrode. <i>Catalysis Communications</i> , 2008 , 10, 295-299	3.2	25
179	Sensitive detection and determination of benzodiazepines using silver nanoparticles-N-GQDs ink modified electrode: A new platform for modern pharmaceutical analysis. <i>Microchemical Journal</i> , 2019 , 145, 1050-1057	4.8	25
178	Ultrasensitive immunoassay of glycoprotein 125 (CA 125) in untreated human plasma samples using poly (CTAB-chitosan) doped with silver nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 2048-2064	7.9	25
177	Graphene quantum dot functionalized by chitosan as an electrically conductive nano-material toward low potential detection: a new platform for interface science. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 11834-11843	2.1	24
176	Electropolymerization of taurine on gold surface and its sensory application for determination of captopril in undiluted human serum. <i>Materials Science and Engineering C</i> , 2014 , 38, 197-205	8.3	24
175	A new mechanistic approach to elucidate furosemide electrooxidation on magnetic nanoparticles loaded on graphene oxide modified glassy carbon electrode. <i>RSC Advances</i> , 2014 , 4, 6580	3.7	24
174	Kinetic Study of the Electrooxidation of Mefenamic Acid and Indomethacin Catalysed on Cobalt Hydroxide Modified Glassy Carbon Electrode. <i>Bulletin of the Korean Chemical Society</i> , 2009 , 30, 1341-1348	1.2	24
173	Application of bioactive cyclic oligosaccharide on the detection of doxorubicin hydrochloride in unprocessed human plasma sample: A new platform towards efficient chemotherapy. <i>Microchemical Journal</i> , 2019 , 145, 450-455	4.8	24
172	A novel biosensor for the monitoring of ovarian cancer tumor protein CA 125 in untreated human plasma samples using a novel nano-ink: a new platform for efficient diagnosis of cancer using paper based microfluidic technology. <i>Analytical Methods</i> , 2020 , 12, 1639-1649	3.2	23
171	A verapamil electrochemical sensor based on magnetic mobile crystalline material-41 grafted by sulfonic acid. <i>Electrochimica Acta</i> , 2013 , 89, 660-668	6.7	23
170	Electrodeposition of taurine on gold surface and electro-oxidation of malondialdehyde. <i>Surface Engineering</i> , 2015 , 31, 194-201	2.6	22

169	Determination of aflatoxin M1 using an aptamer-based biosensor immobilized on the surface of dendritic fibrous nano-silica functionalized by amine groups.. <i>Analytical Methods</i> , 2019 , 11, 3910-3919	3.2	22
168	Electrochemical paper-based analytical devices (ePADs) toward biosensing: recent advances and challenges in bioanalysis. <i>Analytical Methods</i> , 2020 , 12, 1398-1414	3.2	21
167	Materials and methods of signal enhancement for spectroscopic whole blood analysis: Novel research overview. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 86, 122-142	14.6	21
166	Kinetic Study of the Electro-Catalytic Oxidation of Hydrazine on Cobalt Hydroxide Modified Glassy Carbon Electrode. <i>Chinese Journal of Chemistry</i> , 2009 , 27, 638-644	4.9	21
165	Multifunctional aptasensors based on mesoporous silica nanoparticles as an efficient platform for bioanalytical applications: Recent advances. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 124, 115778	14.6	21
164	Ultrasensitive immunoassay of tumor protein CA 15.3 in MCF-7 breast cancer cell lysates and unprocessed human plasma using gold nanoparticles doped on the structure of mesoporous silica. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 2493-2508	7.9	21
163	Probing the antigen-antibody interaction towards ultrasensitive recognition of cancer biomarker in adenocarcinoma cell lysates using layer-by-layer assembled silver nano-cubics with porous structure on cysteamine capped GQDs. <i>Microchemical Journal</i> , 2018 , 143, 379-392	4.8	21
162	Graphene Quantum Dots Functionalized by Chitosan and β Cyclodextrin: An Advanced Nanocomposite for Sensing of Multi-Analytes at Physiological pH. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 4598-4607	1.3	20
161	Sensitive detection of Trifluralin in untreated human plasma samples using reduced graphene oxide modified by polyethylene imine and silver nanoparticles: A new platform on the analysis of pesticides and chemical injuries. <i>Microchemical Journal</i> , 2019 , 147, 741-748	4.8	20
160	Nanosized hydrophobic gels: Advanced supramolecules for use in electrochemical bio- and immunosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 102, 210-224	14.6	20
159	Cytosensing of cancer cells using antibody-based molecular imprinting: A short-review. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 99, 129-134	14.6	20
158	Electrochemical Nanobiosensing of Phenylalanine Using Phenylalanine Dehydrogenase Incorporated on Amino-Functionalized Mobile Crystalline Material-41. <i>IEEE Sensors Journal</i> , 2014 , 14, 1081-1088	4	20
157	Immobilization of ssDNA on the surface of silver nanoparticles-graphene quantum dots modified by gold nanoparticles towards biosensing of microorganism. <i>Microchemical Journal</i> , 2020 , 152, 104286	4.8	20
156	Aptamer based recognition of cancer cells: Recent progress and challenges in bioanalysis. <i>Talanta</i> , 2020 , 220, 121436	6.2	20
155	Diagnosis of hepatitis via nanomaterial-based electrochemical, optical or piezoelectrical biosensors: a review on recent advancements. <i>Mikrochimica Acta</i> , 2018 , 185, 568	5.8	20
154	Chalcopyrite and pyrite floatabilities in the presence of sodium sulfide and sodium metabisulfite in a high pyritic copper complex ore. <i>Journal of Dispersion Science and Technology</i> , 2017 , 38, 782-788	1.5	19
153	Recent advances on the biosensing and bioimaging based on polymer dots as advanced nanomaterial: Analytical approaches. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 118, 840-852	14.6	19
152	The role of nanomaterials on the cancer cells sensing based on folate receptor: Analytical approach. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 125, 115834	14.6	19

151	A novel DNA based bioassay toward ultrasensitive detection of Brucella using gold nanoparticles supported histidine: A new platform for the assay of bacteria in the cultured and human biofluids with and without polymerase chain reactions (PCR). <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 422-430	7.9	19
150	Biomedical analysis of exosomes using biosensing methods: recent progress. <i>Analytical Methods</i> , 2020 , 12, 2795-2811	3.2	19
149	Mesoporous (organo) silica decorated with magnetic nanoparticles as a reusable nanoadsorbent for arsenic removal from water samples. <i>Environmental Technology (United Kingdom)</i> , 2015 , 36, 36-44	2.6	17
148	A study on selective flotation in low and high pyritic copper sulphide ores. <i>Separation Science and Technology</i> , 2016 , 51, 2214-2224	2.5	17
147	Graphene Quantum Dots Incorporated into Cyclodextrin: a Novel Polymeric Nanocomposite for Non-Enzymatic Sensing of L-Tyrosine at Physiological pH. <i>Journal of Analytical Chemistry</i> , 2018 , 73, 602-612	14.1	17
146	Magnetic nanoparticles loaded on mobile crystalline material-41: preparation, characterization and application as a novel material for the construction of an electrochemical nanosensor. <i>RSC Advances</i> , 2013 , 3, 24237	3.7	17
145	Graphene quantum dot functionalized by beta-cyclodextrin: a novel nanocomposite toward amplification of l-cysteine electro-oxidation signals. <i>Nanocomposites</i> , 2016 , 2, 18-28	3.4	17
144	Biomedical application of hyperbranched polymers: Recent Advances and challenges. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 142, 116308	14.6	17
143	DNA-based bioassay of legionella pneumonia pathogen using gold nanostructure: A new platform for diagnosis of legionellosis. <i>International Journal of Biological Macromolecules</i> , 2019 , 128, 692-699	7.9	16
142	Microfluidic biosensing of circulating tumor cells (CTCs): Recent progress and challenges in efficient diagnosis of cancer. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 134, 111153	7.5	16
141	An innovative nucleic acid based biosensor toward detection of Legionella pneumophila using DNA immobilization and hybridization: A novel genosensor. <i>Microchemical Journal</i> , 2019 , 148, 708-716	4.8	15
140	Immunosensing of breast cancer tumor protein CA 15-3 (carbohydrate antigen 15.3) using a novel nano-bioink: A new platform for screening of proteins in human biofluids by pen-on-paper technology. <i>International Journal of Biological Macromolecules</i> , 2019 , 132, 748-758	7.9	15
139	Electrocatalytic oxidation of selected parabens on zinc hydroxide nanoparticles. <i>Catalysis Communications</i> , 2012 , 19, 10-16	3.2	15
138	Spectrofluorimetric cytosensing of colorectal cancer cells using terbium-doped dendritic fibrous nano-silica functionalized by folic acid: A novel optical cytosensor for cancer detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 180, 113077	3.5	14
137	Optimized DNA-based biosensor for monitoring Leishmania infantum in human plasma samples using biomacromolecular interaction: a novel platform for infectious disease diagnosis. <i>Analytical Methods</i> , 2020 , 12, 4759-4768	3.2	14
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