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Europium Nanoparticles and Time-resolved Fluorescence for Ultrasensitive Detection of Prostate-specific Antigen

DOI: 10.1093/clinchem/47.3.561
Clinical Chemistry, 2001, 47, 561-568.

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| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 253 | Utilization of kinetically enhanced monovalent binding affinity by immunoassays based on multivalent nanoparticle-antibody bioconjugates. <i>Analytical Chemistry</i> , 2001 , 73, 2254-60 | 7.8 | 162 |
| 252 | RE: Europium Nanoparticles and Time-resolved Fluorescence for Ultrasensitive Detection of Prostate-specific Antigen. <i>Clinical Chemistry</i> , 2001 , 47, 1743-1744 | 5.5 | |
| 251 | Signal Amplification in Time-resolved Fluorometry. <i>Clinical Chemistry</i> , 2001 , 47, 380-381 | 5.5 | 4 |
| 250 | Supersensitive Time-resolved Immunofluorometric Assay of Free Prostate-specific Antigen with Nanoparticle Label Technology. <i>Clinical Chemistry</i> , 2001 , 47, 1269-1278 | 5.5 | 119 |
| 249 | Reply. 2001 , 41, 1453a-1453 | | |
| 248 | Time-Resolution in Fluorometry Technologies, Labels, and Applications in Bioanalytical Assays. 2001 , 38, 441-519 | | 245 |
| 247 | Nanoencapsulated microcrystalline particles for superamplified biochemical assays. <i>Analytical Chemistry</i> , 2002 , 74, 5480-6 | 7.8 | 98 |
| 246 | Analysis of the detection limit on a microelectronic array. 2002 , 33, 494, 496 | | 1 |
| 245 | Base pair mismatch recognition using plasmon resonant particle labels. <i>Analytical Biochemistry</i> , 2002 , 309, 109-116 | 3.1 | 67 |
| 244 | Current status of modern analytical luminescence methods. 2003 , 500, 21-69 | | 147 |
| 243 | Sensitive miniature single-particle immunoassay of prostate-specific antigen using time-resolved fluorescence. 2003 , 482, 157-164 | | 25 |
| 242 | Plasmon resonant particles for biological detection. 2003 , 14, 13-22 | | 321 |
| 241 | Immunochemical detection of prion protein on dipsticks prepared with crystalline bacterial cell-surface layers. 2003 , 43, 1677-82 | | 10 |
| 240 | Functionalized Europium Oxide Nanoparticles Used as a Fluorescent Label in an Immunoassay for Atrazine. <i>Analytical Chemistry</i> , 2003 , 75, 5282-5286 | 7.8 | 139 |
| 239 | A core-shell-type fluorescent nanosphere possessing reactive poly(ethylene glycol) tethered chains on the surface for zeptomole detection of protein in time-resolved fluorometric immunoassay. <i>Analytical Chemistry</i> , 2003 , 75, 6124-32 | 7.8 | 103 |
| 238 | Highly sensitive immunoassay of free prostate-specific antigen in serum using europium(III) nanoparticle label technology. 2003 , 328, 45-58 | | 91 |
| 237 | Bioconjugated Luminescent Nanoparticles for Biological Applications. 2003 , 24, 453-464 | | 50 |

236 Fluorescence decay profile measured with spread spectrum excitations. **2003**, 4963, 201

235 . **2004**, 250

234 Nucleic acid testing using surface plasmon resonance fluorescence detection. *Clinical Chemistry*, **2004**, 50, 1942-3 5.5 6

233 Europium(III) nanoparticle-label-based assay for the detection of nucleic acids. **2004**, 15, 1708-1715 22

232 Sensitive assay for identification of methicillin-resistant *Staphylococcus aureus*, based on direct detection of genomic DNA by use of gold nanoparticle probes. *Clinical Chemistry*, **2004**, 50, 1949-52 5.5 10

231 Useful estimates of assay performance from small data sets. *Clinical Chemistry*, **2004**, 50, 1958-9 5.5 1

230 Use of computer simulation to study impact of increasing routine test volume on turnaround times of STAT samples on ci8200 integrated chemistry and immunoassay analyzer. *Clinical Chemistry*, **2004**, 50, 1952-5 5.5 5

229 Mass spectrometric analysis of protein markers for ovarian cancer. *Clinical Chemistry*, **2004**, 50, 1939-42 5.5 23

228 Clinical evaluation of an algorithm for short sample detection on a multi-analyte panel using a point-of-care analyzer. *Clinical Chemistry*, **2004**, 50, 1947-9 5.5 3

227 Photo-removable protecting groups for in situ DNA microarray synthesis. *Clinical Chemistry*, **2004**, 50, 1936-9 5.5 4

226 Homogeneous time-resolved fluorescence quenching assay (TruPoint) for nucleic acid detection. *Clinical Chemistry*, **2004**, 50, 1943-7 5.5 19

225 Microarray-based approach for high-throughput genotyping of single-nucleotide polymorphisms with layer-by-layer dual-color fluorescence hybridization. *Clinical Chemistry*, **2004**, 50, 1955-7 5.5 13

224 Quantitative, rapid europium(III) nanoparticle-label-based all-in-one dry-reagent immunoassay for thyroid-stimulating hormone. *Clinical Chemistry*, **2004**, 50, 1935-6 5.5 8

223 Demonstration of an alternative approach to immuno-PCR. *Clinical Chemistry*, **2004**, 50, 1932-4 5.5 9

222 Immunoassay of total prostate-specific antigen using europium(III) nanoparticle labels and streptavidin-biotin technology. **2004**, 294, 111-22 54

221 Fluorescent nanoparticles as labels for immunometric assay of C-reactive protein using two-photon excitation assay technology. *Analytical Biochemistry*, **2004**, 328, 210-8 3.1 48

220 Detection strategies for bioassays based on luminescent lanthanide complexes and signal amplification. *Analytical and Bioanalytical Chemistry*, **2004**, 380, 24-30 4.4 32

219 Bionanotechnology based on silica nanoparticles. **2004**, 24, 621-38 386

| | | | |
|-----|--|-----|-----|
| 218 | Simple, rapid, and sensitive thyroid-stimulating hormone immunoassay using europium(III) nanoparticle label. 2004 , 517, 169-176 | | 34 |
| 217 | Novel fluorescent europium chelate-doped silica nanoparticles: preparation, characterization and time-resolved fluorometric application. 2004 , 14, 851 | | 86 |
| 216 | Redox cycling of coenzyme Q9 as a new measure of plasma reducing power. <i>Clinical Chemistry</i> , 2004 , 50, 1930-2 | 5.5 | 5 |
| 215 | Quantum dot-antibody and aptamer conjugates shift fluorescence upon binding bacteria. 2004 , 325, 739-43 | | 130 |
| 214 | Preparation, characterization, and time-resolved fluorometric application of silica-coated terbium(III) fluorescent nanoparticles. <i>Analytical Chemistry</i> , 2004 , 76, 513-8 | 7.8 | 187 |
| 213 | Preparation and Time-Resolved Fluorometric Application of Luminescent Europium Nanoparticles. <i>Chemistry of Materials</i> , 2004 , 16, 2494-2498 | 9.6 | 90 |
| 212 | Development of functionalized fluorescent europium nanoparticles for biolabeling and time-resolved fluorometric applications. 2004 , 14, 2896 | | 90 |
| 211 | Nanoscale fluoro-immunoassays with lanthanide oxide nanoparticles. 2004 , | | 2 |
| 210 | Preparation and a time-resolved fluoroimmunoassay application of new europium fluorescent nanoparticles. 2004 , 20, 245-6 | | 40 |
| 209 | Nanoparticle labels in immunosensing using optical detection methods. 2005 , 20, 2454-69 | | 272 |
| 208 | A novel homogeneous assay format utilising proximity dependent fluorescence energy transfer between particulate labels. 2005 , 539, 251-256 | | 25 |
| 207 | Enhanced photoluminescence of up-converting phosphors in a solid phase bioaffinity assay. 2005 , 543, 130-136 | | 15 |
| 206 | Rapid and sensitive HBsAg immunoassay based on fluorescent nanoparticle labels and time-resolved detection. 2005 , 129, 83-90 | | 33 |
| 205 | Synthesis of Well-Dispersed Y2O3:Eu Nanocrystals and Self-Assembled Nanodisks Using a Simple Non-hydrolytic Route. 2005 , 17, 2506-2509 | | 102 |
| 204 | High-performance fluorescent particles prepared via miniemulsion polymerization. 2005 , 285, 619-26 | | 59 |
| 203 | Photochemical characterization of up-converting inorganic lanthanide phosphors as potential labels. <i>Journal of Fluorescence</i> , 2005 , 15, 513-28 | 2.4 | 114 |
| 202 | Progress in lanthanides as luminescent probes. <i>Journal of Fluorescence</i> , 2005 , 15, 529-42 | 2.4 | 395 |
| 201 | Lanthanide complex-based fluorescence label for time-resolved fluorescence bioassay. <i>Journal of Fluorescence</i> , 2005 , 15, 559-68 | 2.4 | 135 |

| | | | |
|-----|--|-----|-----|
| 200 | Enzyme inhibitor screening using a homogeneous proximity-based immunoassay for estradiol. 2005 , 10, 348-54 | | 17 |
| 199 | A sensitive sandwich DNA array using fluorescent nanoparticle probes. 2006 , 321, 141-55 | | 3 |
| 198 | Radiative Decay Engineering. 2005 , | | 4 |
| 197 | Fluorescent nanoparticle probes for cancer imaging. 2005 , 4, 593-602 | | 120 |
| 196 | Synthesis, characterization, and application of Eu(III), Tb(III), Sm(III), and Dy(III) lanthanide chelate nanoparticle labels. <i>Analytical Chemistry</i> , 2005 , 77, 2643-8 | 7.8 | 122 |
| 195 | Microarray immunoassay for phenoxybenzoic acid using polymer encapsulated Eu:Gd ₂ O ₃ nanoparticles as fluorescent labels. <i>Analytical Chemistry</i> , 2005 , 77, 6864-73 | 7.8 | 188 |
| 194 | A sensitive adenovirus immunoassay as a model for using nanoparticle label technology in virus diagnostics. 2005 , 33, 217-23 | | 47 |
| 193 | Bioconjugated Silica Nanoparticles for Bioanalytical Applications. 2005 , 444-457 | | 2 |
| 192 | Microfluidic Techniques. 2005 , | | 2 |
| 191 | Simultaneous use of time-resolved fluorescence and anti-stokes photoluminescence in a bioaffinity assay. <i>Analytical Chemistry</i> , 2005 , 77, 2826-34 | 7.8 | 57 |
| 190 | Protein detection using biobarcode. 2006 , 2, 470-6 | | 11 |
| 189 | Synthesis and properties of nanospheres copolymerised with luminescent europium(III) chelates. 2006 , 4, 1383 | | 11 |
| 188 | Novel Fluorophores. 2006 , 675-703 | | 2 |
| 187 | Nanodiagnostics: a new frontier for clinical laboratory medicine. <i>Clinical Chemistry</i> , 2006 , 52, 1238-46 | 5.5 | 145 |
| 186 | Nanoparticles in biomolecular detection. 2006 , 1, 28-37 | | 198 |
| 185 | Anomalies in the concentration quenching of luminescence in doped Y ₂ SiO ₅ :Pr ³⁺ nanocrystals. 2006 , 84, 180-184 | | 2 |
| 184 | Fifty years of development in the endocrinology laboratory. <i>Clinical Biochemistry</i> , 2006 , 39, 542-57 | 3.5 | 16 |
| 183 | Synthesis and characterization of titania-based monodisperse fluorescent europium nanoparticles for biolabeling. <i>Journal of Luminescence</i> , 2006 , 117, 20-28 | 3.8 | 37 |

| | | | |
|-----|---|-----|-----|
| 182 | Fluorescence lifetime measurements to determine the core-shell nanostructure of FITC-doped silica nanoparticles: An optical approach to evaluate nanoparticle photostability. <i>Journal of Luminescence</i> , 2006 , 117, 75-82 | 3.8 | 83 |
| 181 | Lanthanide-based luminescence probes and time-resolved luminescence bioassays. 2006 , 25, 490-500 | | 167 |
| 180 | Bioconjugated silica-coated nanoparticles for bioseparation and bioanalysis. 2006 , 25, 848-855 | | 106 |
| 179 | Luminescent nanomaterials for biological labelling. 2006 , 17, R1-R13 | | 474 |
| 178 | Structural properties of electrophoretically deposited europium oxide nanocrystalline thin films. 2006 , 41, 8160-8165 | | 21 |
| 177 | A new time-resolved fluorometric microarray detection system using core-shell-type fluorescent nanosphere and its application to allergen microarray. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 797-806 | 4.4 | 5 |
| 176 | Gold nanoparticle based immunochromatography using a resin modified micropipette tip for rapid and simple detection of human chorionic gonadotropin hormone and prostate-specific antigen. 2006 , 7, 276-281 | | 28 |
| 175 | Application of europium(III) chelate-dyed nanoparticle labels in a competitive atrazine fluoroimmunoassay on an ITO waveguide. 2006 , 21, 1077-85 | | 45 |
| 174 | Resin-based micropipette tip for immunochromatographic assays in urine samples. 2006 , 312, 54-60 | | 19 |
| 173 | Lateral flow immunoassay using Europium (III) chelate microparticles and time-resolved fluorescence for eosinophils and neutrophils in whole blood. <i>Clinical Chemistry</i> , 2007 , 53, 342-8 | 5.5 | 42 |
| 172 | Rapid method for detection of influenza a and B virus antigens by use of a two-photon excitation assay technique and dry-chemistry reagents. 2007 , 45, 3581-8 | | 32 |
| 171 | Nanoparticles for Optical Imaging of Cancer. 2007 , | | 1 |
| 170 | Synthesis and characterization of europium(III) nanoparticles for time-resolved fluoroimmunoassay of prostate-specific antigen. 2007 , 18, 075604 | | 13 |
| 169 | Bioconjugation of functionalized fluorescent YVO(4):Eu nanocrystals with BSA for immunoassay. 2007 , 71, 1186-91 | | 15 |
| 168 | Composite organic-inorganic nanoparticles as Raman labels for tissue analysis. 2007 , 7, 351-6 | | 141 |
| 167 | Dual-Lanthanide-Chelated Silica Nanoparticles as Labels for Highly Sensitive Time-Resolved Fluorometry. <i>Chemistry of Materials</i> , 2007 , 19, 5875-5881 | 9.6 | 76 |
| 166 | Magnetic/luminescent core/shell particles synthesized by spray pyrolysis and their application in immunoassays with internal standard. 2007 , 18, 55102 | | 95 |
| 165 | Multiple fluorescent labeling of silica nanoparticles with lanthanide chelates for highly sensitive time-resolved immunofluorometric assays. <i>Clinical Chemistry</i> , 2007 , 53, 1503-10 | 5.5 | 55 |

| | | | |
|-----|--|-----|-----|
| 164 | Highly luminescent zinc(II)-bis(8-hydroxyquinoline) complex nanorods: sonochemical synthesis, characterizations, and protein sensing. 2007 , 111, 5767-72 | | 52 |
| 163 | Application of Magnetic and Luminescent Metal Oxide Particles to Biosensors. 2007 , | | |
| 162 | Europium tetracycline as a luminescent probe for nucleoside phosphates and its application to the determination of kinase activity. <i>Chemistry - A European Journal</i> , 2007 , 13, 4342-9 | 4.8 | 114 |
| 161 | Practical time-gated luminescence flow cytometry. I: concepts. 2007 , 71, 783-96 | | 20 |
| 160 | Europium(III)-chelates embedded in nanoparticles are protected from interfering compounds present in assay media. 2007 , 585, 17-23 | | 31 |
| 159 | Dye sensitized luminescent europium nanoparticles and its time-resolved fluorometric assay for DNA. 2007 , 587, 180-6 | | 31 |
| 158 | Comparison of infrared-excited up-converting phosphors and europium nanoparticles as labels in a two-site immunoassay. 2007 , 596, 106-15 | | 42 |
| 157 | Strong quenching of Y2SiO5:Pr3+ nanocrystal luminescence by praseodymium nonuniform distribution. 2007 , 244, 3325-3332 | | 11 |
| 156 | Sensitive <i>Listeria</i> spp. immunoassay based on europium(III) nanoparticulate labels using time-resolved fluorescence. 2007 , 114, 288-94 | | 20 |
| 155 | Concentration quenching anomalies of activated Y2SiO5:Pr3+ nanocrystal luminescence. 2007 , 17, 491-495 | | 5 |
| 154 | From diagnostics to therapy: prospects of quantum dots. <i>Clinical Biochemistry</i> , 2007 , 40, 917-27 | 3.5 | 206 |
| 153 | Preparation, characterisation and application of europium(III) chelate-dyed polystyrene-acrylic acid nanoparticle labels. 2008 , 630, 211-6 | | 12 |
| 152 | Synthesis and characterization of core-shell europium(III)-silica nanoparticles. 2008 , 10, 1221-1224 | | 27 |
| 151 | Anion Sensing Porphyrin Functionalized Nanoparticles. 2008 , 18, 32-40 | | 35 |
| 150 | Quantitative evaluation of time-resolved fluorescence microscopy using a new europium label: application to immunofluorescence imaging of nitrotyrosine in kidneys. <i>Analytical Biochemistry</i> , 2008 , 372, 119-21 | 3.1 | 12 |
| 149 | A dual-step fluorescence resonance energy transfer-based quenching assay for screening of caspase-3 inhibitors. <i>Analytical Biochemistry</i> , 2008 , 375, 71-81 | 3.1 | 18 |
| 148 | Particulate and soluble Eu(III)-chelates as donor labels in homogeneous fluorescence resonance energy transfer based immunoassay. 2008 , 606, 72-9 | | 15 |
| 147 | Time-resolved luminescent lateral flow assay technology. 2008 , 626, 186-92 | | 44 |

| | | | |
|-----|---|-----|-----|
| 146 | Quantum dots for biomedical applications. 2008 , 2, 315-22 | | 5 |
| 145 | Bright and monodispersed phosphorescent particles and their applications for biological assays. <i>Analytical Chemistry</i> , 2008 , 80, 5501-7 | 7.8 | 24 |
| 144 | Photonic and nanobiophotonic properties of luminescent lanthanide-doped hybrid organic/inorganic materials. 2008 , 18, 23-40 | | 240 |
| 143 | PSA fluoroimmunoassays using anti-PSA ScFv and quantum-dot conjugates. 2008 , 3, 475-83 | | 11 |
| 142 | Rare earth functionalized polymers. <i>Journal of Alloys and Compounds</i> , 2008 , 451, 530-533 | 5.7 | 18 |
| 141 | Quantum dots: emerging applications in urologic oncology. 2008 , 26, 86-92 | | 31 |
| 140 | Luminescent europium nanoparticles with a wide excitation range from UV to visible light for biolabeling and time-gated luminescence bioimaging. 2008 , 365-7 | | 56 |
| 139 | Sensitive quantitative protein concentration method using luminescent resonance energy transfer on a layer-by-layer europium(III) chelate particle sensor. <i>Analytical Chemistry</i> , 2008 , 80, 9781-6 | 7.8 | 27 |
| 138 | Biologically produced bifunctional recombinant protein nanoparticles for immunoassays. <i>Analytical Chemistry</i> , 2008 , 80, 583-7 | 7.8 | 15 |
| 137 | ENSAM: Europium Nanoparticles for Signal enhancement of Antibody Microarrays on nanoporous silicon. 2008 , 7, 1308-14 | | 36 |
| 136 | Time-Resolved Fluorometric Immunoassays; Instrumentation, Applications, Unresolved Issues and Future Trends. 2008 , 429-447 | | 6 |
| 135 | Phosphorescent nanoparticles and their applications for time-resolved luminescent biological assays. 2009 , | | |
| 134 | Lateral flow immunoassay using europium chelate-loaded silica nanoparticles as labels. <i>Clinical Chemistry</i> , 2009 , 55, 179-82 | 5.5 | 100 |
| 133 | Detection of anthrax toxin by an ultrasensitive immunoassay using europium nanoparticles. 2009 , 16, 408-13 | | 88 |
| 132 | Study on nonspecificity of an immuoassay using Eu-doped polystyrene nanoparticle labels. 2009 , 345, 80-9 | | 28 |
| 131 | Impact of surface defects and denaturation of capture surface proteins on nonspecific binding in immunoassays using antibody-coated polystyrene nanoparticle labels. 2009 , 347, 24-30 | | 10 |
| 130 | Development of a denaturation/renaturation-based production process for ferritin nanoparticles. 2009 , 102, 1012-24 | | 7 |
| 129 | Thin solid europium(III) dye layers as donors in time-resolved fluorescence resonance energy transfer assays. 2009 , 255, 6529-6534 | | 4 |

| | | | |
|-----|--|-----|-----|
| 128 | Evolving point-of-care diagnostics using up-converting phosphor bioanalytical systems. <i>Analytical Chemistry</i> , 2009 , 81, 3216-21 | 7.8 | 37 |
| 127 | Lanthanide-containing polymer microspheres by multiple-stage dispersion polymerization for highly multiplexed bioassays. 2009 , 131, 15276-83 | | 83 |
| 126 | Time-resolved fluorescence based DNA detection using novel europium ternary complex doped silica nanoparticles. 2009 , 80, 991-5 | | 29 |
| 125 | Multiple sized europium(III) chelate-dyed polystyrene particles as donors in FRET - an application for sensitive protein quantification utilizing competitive adsorption. <i>Analyst, The</i> , 2009 , 134, 980-6 | 5 | 23 |
| 124 | Visible-light-sensitized highly luminescent europium nanoparticles: preparation and application for time-gated luminescence bioimaging. 2009 , 19, 1258 | | 83 |
| 123 | Synthesis and applications of magnetic nanoparticles for biorecognition and point of care medical diagnostics. 2010 , 21, 442001 | | 103 |
| 122 | Optimization of the Coupling of Target Recognition and Signal Generation. 2010 , 41-106 | | 5 |
| 121 | Luminescence amplification strategies integrated with microparticle and nanoparticle platforms. 2011 , 300, 51-91 | | 13 |
| 120 | Preparation and time-resolved luminescence bioassay application of multicolor luminescent lanthanide nanoparticles. <i>Journal of Fluorescence</i> , 2010 , 20, 321-8 | 2.4 | 47 |
| 119 | Time-resolved microscopy for imaging lanthanide luminescence in living cells. 2010 , 77, 1113-25 | | 62 |
| 118 | Simultaneous detection of Human Immunodeficiency Virus 1 and Hepatitis B virus infections using a dual-label time-resolved fluorometric assay. 2010 , 8, 27 | | 14 |
| 117 | Time-gated real-time bioimaging system using multicolor microsecond-lifetime silica nanoparticles. 2010 , | | 1 |
| 116 | Luminescence Phenomena Involving Metal Enolates. 2010 , | | 3 |
| 115 | Analysis of Androgens and Their Derivatives. 2010 , 457-558 | | |
| 114 | Characterization of immune responses to capsid protein p24 of human immunodeficiency virus type 1 and implications for detection. 2010 , 17, 1244-51 | | 18 |
| 113 | A highly sensitive and selective fluorescent Cu ²⁺ sensor synthesized with silica nanoparticles. 2010 , 21, 045501 | | 32 |
| 112 | Size matters: influence of the size of nanoparticles on their interactions with ligands immobilized on the solid surface. 2010 , 26, 3783-5 | | 23 |
| 111 | Lanthanide doped silica nanoparticles applied to multiplexed immunoassays. <i>Analyst, The</i> , 2010 , 135, 2132-8 | 5 | 22 |

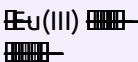
| | | | |
|-----|--|-----|-----|
| 110 | Increasing the efficiency of lanthanide luminescent bioprobes: bioconjugated silica nanoparticles as markers for cancerous cells. 2010 , 34, 2915 | | 28 |
| 109 | Lanthanide Nanoparticles as Photoluminescent Reporters. 2010 , 89-113 | | 2 |
| 108 | Nanotechnology in animal productionUpstream assessment of applications. 2010 , 130, 14-24 | | 54 |
| 107 | Fluorescent silica nanoparticles for cancer imaging. 2010 , 624, 151-62 | | 23 |
| 106 | Cancer Nanotechnology. 2010 , | | 23 |
| 105 | Bio-Functional, Lanthanide-Labeled Polymer Particles by Seeded Emulsion Polymerization and their Characterization by Novel ICP-MS Detection. 2010 , 25, 269-281 | | 23 |
| 104 | Nanoparticle-based immunoassays for sensitive and early detection of HIV-1 capsid (p24) antigen. 2010 , 201 Suppl 1, S59-64 | | 96 |
| 103 | A novel bifunctional europium complex as a potential fluorescent label for DNA detection. <i>Analyst, The</i> , 2010 , 135, 2144-9 | 5 | 14 |
| 102 | Rapid detection of trace amounts of surfactants using nanoparticles in fluorometric assays. 2010 , 2, 69-71 | | 15 |
| 101 | Time-gated luminescence microscopy allowing direct visual inspection of lanthanide-stained microorganisms in background-free condition. <i>Analytical Chemistry</i> , 2011 , 83, 2294-300 | 7.8 | 103 |
| 100 | Luminescence Applied in Sensor Science. 2011 , | | 7 |
| 99 | Diagnosing Diseases with Rust: Magnetic Nanoparticles for Biomedical Imaging. 2011 , 307-332 | | 1 |
| 98 | A highly sensitive and specific time resolved fluorometric bridge assay for antibodies to HIV-1 and -2. 2011 , 173, 24-30 | | 12 |
| 97 | Lanthanide-based time-resolved luminescence immunoassays. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 2847-64 | 4.4 | 197 |
| 96 | Simple and inexpensive immunoassay-based diagnostic tests. 2011 , 3, 27-40 | | 4 |
| 95 | Background-free cytometry using rare earth complex bioprobes. 2011 , 102, 479-513 | | 8 |
| 94 | The effects of laser welding on heterogeneous immunoassay performance in a microfluidic cartridge. 2011 , 5, 46504-4650411 | | 3 |
| 93 | Synthesis and Luminescence Properties of Tris (8-Hydroxyquinoline) Iron Spindle-Like Structures at Room Temperature. 2011 , 391-392, 225-229 | | 1 |

| | | | |
|----|---|------|------|
| 92 | Lanthanide Complex-Polyethylenimine Conjugate: A Highly Luminescent Probe for Time-Resolved Fluorescence Analysis. 2011 , 108, 212-216 | | |
| 91 | Simultaneous detection of high-sensitivity cardiac troponin I and myoglobin by modified sandwich lateral flow immunoassay: proof of principle. <i>Clinical Chemistry</i> , 2011 , 57, 1732-8 | 5.5 | 57 |
| 90 | Time-resolved fluorescence immunoassay for C-reactive protein using colloidal semiconducting nanoparticles. 2011 , 11, 11335-42 | | 9 |
| 89 | Rapid and sensitive cardiac troponin I immunoassay based on fluorescent europium(III)-chelate-dyed nanoparticles. 2012 , 414, 70-5 | | 25 |
| 88 | Performance of fluorescent europium(III) nanoparticles and colloidal gold reporters in lateral flow bioaffinity assay. <i>Analytical Biochemistry</i> , 2012 , 428, 31-8 | 3.1 | 83 |
| 87 | Application of europium(III) chelates-bonded silica nanoparticle in time-resolved immunofluorometric detection assay for human thyroid stimulating hormone. 2012 , 722, 95-9 | | 31 |
| 86 | Using lanthanide-based resonance energy transfer for in vitro and in vivo studies of biological processes. 2012 , 77, 1553-74 | | 8 |
| 85 | Sensitive SNP Detection of KIF6 Gene by Quantum Dot-DNA Conjugate Probe-Based Assay. 2013 , 46, 508-517 | | 3 |
| 84 | A comparison of capture antibody fragments in cardiac troponin I immunoassay. <i>Clinical Biochemistry</i> , 2013 , 46, 963-968 | 3.5 | 20 |
| 83 | Functionalizing nanoparticles with biological molecules: developing chemistries that facilitate nanotechnology. <i>Chemical Reviews</i> , 2013 , 113, 1904-2074 | 68.1 | 1008 |
| 82 | Fuzzy liquid analysis by an array of nonspecifically interacting reagents: the taste of fluorescence. 2013 , 135, 7422-5 | | 5 |
| 81 | Europium nanoparticle-based high performing immunoassay for the screening of treponemal antibodies. <i>PLoS ONE</i> , 2013 , 8, e84050 | 3.7 | 4 |
| 80 | . 2014 , | | 50 |
| 79 | Luminescence Bioimaging with Lanthanide Complexes. 2014 , 125-196 | | 9 |
| 78 | Luminescent lanthanide reporters: new concepts for use in bioanalytical applications. 2014 , 2, 012001 | | 57 |
| 77 | Biomolecule detection in porous silicon based microcavities via europium luminescence enhancement. 2014 , 2, 7694-7703 | | 19 |
| 76 | Development of a microchip Europium nanoparticle immunoassay for sensitive point-of-care HIV detection. 2014 , 61, 177-83 | | 35 |
| 75 | Kinetics of bioconjugate nanoparticle label binding in a sandwich-type immunoassay. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 493-503 | 4.4 | 4 |

| | | | |
|----|--|-----|----|
| 74 | Extension of dynamic range of sensitive nanoparticle-based immunoassays. <i>Analytical Biochemistry</i> , 2014 , 446, 82-6 | 3.1 | 4 |
| 73 | Novel non-specific liquid fingerprint technology for wine analysis: a feasibility study. 2014 , 20, 172-177 | | 3 |
| 72 | Development of an automatic high-throughput assay for tetracycline determination by using Eu ₂ O ₃ nanoparticles and dry-reagent technology. 2014 , 119, 111-5 | | 12 |
| 71 | How to build a time-gated luminescence microscope. 2014 , 67, 2.22.1-2.22.36 | | 17 |
| 70 | Deposition of luminescence YBO ₃ :Eu ³⁺ ,Gd ³⁺ on ferromagnetic Fe@C nanoparticles. 2014 , 107, 161-165 | | 5 |
| 69 | A microfluidic immunoassay platform for the detection of free prostate specific antigen: a systematic and quantitative approach. <i>Analyst, The</i> , 2015 , 140, 4423-33 | 5 | 18 |
| 68 | Photophysical study of blue-light excitable ternary Eu(III) complexes and their encapsulation into polystyrene nanoparticles. <i>Journal of Luminescence</i> , 2015 , 160, 128-133 | 3.8 | 5 |
| 67 | Time-resolved luminescent biosensing based on inorganic lanthanide-doped nanoprobe. 2015 , 51, 4129-43 | | 73 |
| 66 | Europium-doped LaF ₃ nanocrystals with organic 9-oxidophenalenone capping ligands that display visible light excitable steady-state blue and time-delayed red emission. 2015 , 44, 3082-91 | | 26 |
| 65 | A metal-enhanced fluorescence study of primary amines: determination of aminoglycosides with europium and gold nanoparticles. 2015 , 7, 1407-1414 | | 9 |
| 64 | Europium enabled luminescent nanoparticles for biomedical applications. <i>Journal of Luminescence</i> , 2015 , 165, 190-215 | 3.8 | 76 |
| 63 | Diagnosis of porcine circovirus type 2 infection with a combination of immunomagnetic beads, single-domain antibody, and fluorescent quantum dot probes. 2015 , 160, 2325-34 | | 4 |
| 62 | Rapid and sensitive lateral flow immunoassay method for determining alpha fetoprotein in serum using europium (III) chelate microparticles-based lateral flow test strips. 2015 , 891, 277-83 | | 27 |
| 61 | Europium Nanospheres-Based Time-Resolved Fluorescence for Rapid and Ultrasensitive Determination of Total Aflatoxin in Feed. 2015 , 63, 10313-8 | | 34 |
| 60 | Fluorescent labels in biosensors for pathogen detection. 2015 , 35, 82-93 | | 53 |
| 59 | Synthesis and investigation of a novel luminous hydrogel. 2016 , 7, 3766-3772 | | 17 |
| 58 | A Fluorescence Immunochemical Assay Using Europium (III) Chelate Microparticles for Rapid, Quantitative and Sensitive Detection of Creatine Kinase MB. <i>Journal of Fluorescence</i> , 2016 , 26, 987-96 | 2.4 | 18 |
| 57 | Lanthanide chelate-encapsulated polystyrene nanoparticles for rapid and quantitative immunochemical assay of procalcitonin. 2016 , 6, 103463-103470 | | 18 |

| | | | |
|----|---|-----|-----|
| 56 | A review on medical applications of poly(N-vinylcarbazole) and its derivatives. 2016 , 65, 888-900 | | 8 |
| 55 | Sensitive detection of influenza viruses with Europium nanoparticles on an epoxy silica sol-gel functionalized polycarbonate-polydimethylsiloxane hybrid microchip. 2016 , 86, 150-155 | | 17 |
| 54 | Residual nanoparticle label immunosensor for wash-free C-reactive protein detection in blood. 2016 , 83, 54-9 | | 12 |
| 53 | Neodymium(III) and lanthanum(III) separation by magnetic nanohydrometallurgy using DTPA functionalized magnetite nanoparticles. <i>Hydrometallurgy</i> , 2016 , 161, 22-28 | 4 | 28 |
| 52 | Recent Advances on Luminescent Enhancement-Based Porous Silicon Biosensors. <i>Pharmaceutical Research</i> , 2016 , 33, 2314-36 | 4.5 | 38 |
| 51 | Biomarker detection technologies and future directions. <i>Analyst, The</i> , 2016 , 141, 740-55 | 5 | 116 |
| 50 | Lanthanide light for biology and medical diagnosis. <i>Journal of Luminescence</i> , 2016 , 170, 866-878 | 3.8 | 199 |
| 49 | Cadmium-containing quantum dots: properties, applications, and toxicity. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 2713-2733 | 5.7 | 77 |
| 48 | Time-Gated FRET Detection for Multiplexed Biosensing. <i>Reviews in Fluorescence</i> , 2017 , 17-43 | 0 | 23 |
| 47 | Super-sensitive time-resolved fluoroimmunoassay for thyroid-stimulating hormone utilizing europium(III) nanoparticle labels achieved by protein corona stabilization, short binding time, and serum preprocessing. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 3407-3416 | 4.4 | 11 |
| 46 | Toward Molecular Recognition of REEs: Comparative Analysis of Hybrid Nanoadsorbents with the Different Complexonate Ligands EDTA, DTPA, and TTHA. <i>Inorganic Chemistry</i> , 2017 , 56, 13938-13948 | 5.1 | 27 |
| 45 | Single Molecule Upconversion-Linked Immunosorbent Assay with Extended Dynamic Range for the Sensitive Detection of Diagnostic Biomarkers. <i>Analytical Chemistry</i> , 2017 , 89, 11825-11830 | 7.8 | 70 |
| 44 | Improved cancer specificity in PSA assay using Aleuria aurantia lectin coated Eu-nanoparticles for detection. <i>Clinical Biochemistry</i> , 2017 , 50, 54-61 | 3.5 | 22 |
| 43 | Application of Eu(III) nanoparticle labels in time-resolved phosphorescence analysis for detection of thyroid stimulating hormone. <i>Russian Journal of Bioorganic Chemistry</i> , 2017 , 43, 377-385 | 1 | 1 |
| 42 | Applications of Nanoparticles Probes for Prostate Cancer Imaging and Therapy. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1096, 99-115 | 3.6 | 3 |
| 41 | Molecular & Diagnostic Imaging in Prostate Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2018 , | 3.6 | 0 |
| 40 | Quantum Dots. 2018 , 621-637 | | 12 |
| 39 | A Nanoparticle-Based Approach for the Detection of Extracellular Vesicles. <i>Scientific Reports</i> , 2019 , 9, 10038 | 4.9 | 14 |

| | | | |
|----|--|------|----|
| 38 | Review: immunoassays in DNA damage and instability detection. <i>Cellular and Molecular Life Sciences</i> , 2019 , 76, 4689-4704 | 10.3 | 16 |
| 37 | Measurement of Sub-femtomolar Concentrations of Prostate-Specific Antigen through Single-Molecule Counting with an Upconversion-Linked Immunosorbent Assay. <i>Analytical Chemistry</i> , 2019 , 91, 9435-9441 | 7.8 | 35 |
| 36 | Lanthanide-Complex-Loaded Polymer Nanoparticles for Background-Free Single-Particle and Live-Cell Imaging. <i>Chemistry of Materials</i> , 2019 , 31, 4034-4041 | 9.6 | 26 |
| 35 | Cherenkov-excited luminescence scanned imaging using scanned beam differencing and iterative deconvolution in dynamic plan radiation delivery in a human breast phantom geometry. <i>Medical Physics</i> , 2019 , 46, 3067-3077 | 4.4 | 7 |
| 34 | A Motion Free Image Based TRF Reader for Quantitative Immunoassay. 2019 , | | 2 |
| 33 | Inorganic Complexes and Metal-Based Nanomaterials for Infectious Disease Diagnostics. <i>Chemical Reviews</i> , 2019 , 119, 1456-1518 | 68.1 | 54 |
| 32 | Nanoparticles in Medicine. 2020 , | | 1 |
| 31 | Advances in Optical Single-Molecule Detection: En Route to Supersensitive Bioaffinity Assays. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10746-10773 | 16.4 | 39 |
| 30 | Lanthanide [Terbium(III)]-Doped Molecularly Imprinted Nanoarchitectures for the Fluorimetric Detection of Melatonin. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 16068-16076 | 3.9 | 2 |
| 29 | Time-Resolved Fluorescence Immunochromatography Assay (TRFICA) for Aflatoxin: Aiming at Increasing Strip Method Sensitivity. <i>Frontiers in Microbiology</i> , 2020 , 11, 676 | 5.7 | 10 |
| 28 | Ultrabright Terbium Nanoparticles for FRET Biosensing and in Situ Imaging of Epidermal Growth Factor Receptors*. <i>Chemistry - A European Journal</i> , 2020 , 26, 14602-14611 | 4.8 | 6 |
| 27 | Fortschritte in der optischen Einzelmoleküldetektion: Auf dem Weg zu höchstempfindlichen Bioaffinitätsassays. <i>Angewandte Chemie</i> , 2020 , 132, 10836-10865 | 3.6 | 1 |
| 26 | One-step polymerized lanthanide-based polystyrene microsphere for sensitive lateral flow immunoassay. <i>Journal of Rare Earths</i> , 2021 , 39, 11-18 | 3.7 | 7 |
| 25 | Influence of varying thermodynamic parameters on the structural behavior of nano-crystalline europium sesquioxide. <i>Journal of Alloys and Compounds</i> , 2021 , 856, 158129 | 5.7 | 2 |
| 24 | Multiparameter single-particle motion analysis for homogeneous digital immunoassay. <i>Analyst, The</i> , 2021 , 146, 1303-1310 | 5 | 1 |
| 23 | Developing a Fluorescent Hybrid Nanobiosensor Based on Quantum Dots and Azoreductase Enzyme for Methyl Red Monitoring. <i>Iranian Biomedical Journal</i> , 2021 , 25, 8-20 | 2 | 9 |
| 22 | Recent Nanocarrier Approaches for Targeted Drug Delivery in Cancer Therapy. <i>Current Molecular Pharmacology</i> , 2021 , 14, 350-366 | 3.7 | 1 |
| 21 | Detection of bladder cancer with aberrantly fucosylated ITGA3. <i>Analytical Biochemistry</i> , 2021 , 628, 114283 | 3.1 | 3 |

| | | | |
|----|--|-----|---|
| 20 | Optically Detectable Colloidal Metal Labels: Properties, Methods, and Biomedical Applications. 2005 , 333-351 | | 2 |
| 19 | Technology for Biotechnology. 2011 , 61-73 | | 1 |
| 18 | Emerging Nanomaterials for Cancer Therapy. 2020 , 25-54 | | 3 |
| 17 | Optical Techniques. 2012 , 233-257 | | 1 |
| 16 | Nanotechnology Applications for Infectious Diseases. 2013 , 1-84 | | 2 |
| 15 | A Novel Europium Chelate Coated Nanosphere for Time-Resolved Fluorescence Immunoassay. <i>PLoS ONE</i> , 2015 , 10, e0129689 | 3.7 | 8 |
| 14 | A Mini-Review of Nanotechnology and Prostate Cancer: Approaches in Early Diagnosis. <i>Journal of Clinical and Basic Research</i> , 2020 , 4, 21-31 | 0.3 | 1 |
| 13 | Simple and inexpensive immunoassay-based diagnostic tests. 2013 , 183-196 | | |
| 12 | Eu(III)  <i>Bioorganic and Inorganic Chemistry</i> , 2017 , 367-376 | 3 | |
| 11 | Development and Evaluation of Europium-Based Quantitative Lateral Flow Immunoassay for the Chronic Kidney Disease Marker Cystatin-C.. <i>Journal of Fluorescence</i> , 2022 , 32, 419 | 2.4 | 0 |
| 10 | Rapid Detection and Differentiation of and Non Species by Using Recombinase Polymerase Amplification Combined With EuNPs-Based Lateral Flow Immunochromatography.. <i>Frontiers in Chemistry</i> , 2021 , 9, 815189 | 5 | 0 |
| 9 | What Digital Immunoassays Can Learn from Ambient Analyte Theory: A Perspective.. <i>Analytical Chemistry</i> , 2022 , | 7.8 | 1 |
| 8 | Nanoparticle-based immunoassays for early and rapid detection of HIV and other viral infections. 2022 , 173-193 | | |
| 7 | Dye-sensitized lanthanide containing nanoparticles for luminescence based applications. 2022 , 14, 13915-13949 | | |
| 6 | Biosensors for detection of prostate cancer: a review. 2022 , 24, | | 1 |
| 5 | Quantum Dot-Based Nanomaterials for Diagnostic and Therapeutic Applications. 2022 , 429-453 | | 0 |
| 4 | Integrins are enriched on aberrantly fucosylated tumour-derived urinary extracellular vesicles. 2022 , 1, | | 0 |
| 3 | Review of Mn-Doped Semiconductor Nanocrystals for Time-Resolved Luminescence Biosensing/Imaging. 2022 , 5, 17413-17435 | | 0 |

- 2 Digital detection of proteins. ○
- 1 Rapid quantitative detection of okadaic acid in shellfish using lanthanide-labelled fluorescent-nanoparticle immunochromatographic test strips. **2023**, 109635 ○