

Topic	Reference
Anisotropic nanoparticles	<p>[1] Hao, E., G.C. Schatz, and J.T. Hupp, Synthesis and optical properties of anisotropic metal nanoparticles. <i>J Fluoresc</i>, 2004. 14(4): p. 331-41.</p>
	<p>[2] Li, N., P. Zhao, and D. Astruc, Anisotropic gold nanoparticles: synthesis, properties, applications, and toxicity. <i>Angew Chem Int Ed Engl</i>, 2014. 53(7): p. 1756-89.</p>
	<p>[3] Jones, S., et al., Recent progress on the development of anisotropic gold nanoparticles: Design strategies and growth mechanism. <i>J Environ Sci Health C Environ Carcinog Ecotoxicol Rev</i>, 2017. 35(1): p. 47-66.</p>
	<p>[4] Reguera, J., et al., Anisotropic metal nanoparticles for surface enhanced Raman scattering. <i>Chem Soc Rev</i>, 2017. 46(13): p. 3866-3885.</p>
	<p>[5] Kohout, C., C. Santi, and L. Polito, Anisotropic Gold Nanoparticles in Biomedical Applications. <i>Int J Mol Sci</i>, 2018. 19(11).</p>
Atomic number	<p>[6] Coulter, J.A., et al., Radiosensitising nanoparticles as novel cancer therapeutics--pipe dream or realistic prospect? <i>Clin Oncol (R Coll Radiol)</i>, 2013. 25(10): p. 593-603.</p>
	<p>[7] Popescu, R.C., M.O. Fufa, and A.M. Grumezescu, Metal-based nanosystems for diagnosis. <i>Rom J Morphol Embryol</i>, 2015. 56(2 Suppl): p. 635-49.</p>
	<p>[8] Torrisi, L., Gold nanoparticles enhancing protontherapy efficiency. <i>Recent Pat Nanotechnol</i>, 2015. 9(1): p. 51-60.</p>
	<p>[9] Titus, D., E.J. Samuel, and S. Mohana Roopan, Current scenario of biomedical aspect of metal-based nanoparticles on gel dosimetry. <i>Appl Microbiol Biotechnol</i>, 2016. 100(11): p. 4803-16.</p>
	<p>[10] Azharuddin, M., et al., A repertoire of biomedical applications of noble metal nanoparticles. <i>Chem Commun (Camb)</i>, 2019. 55(49): p. 6964-6996.</p>
Biocompatibility	<p>[11] Nie, L., et al., Applications of gold nanoparticles in optical biosensors. <i>J Biomed Nanotechnol</i>, 2014. 10(10): p. 2700-21.</p>
	<p>[12] Daraee, H., et al., Application of gold nanoparticles in biomedical and drug delivery. <i>Artif Cells Nanomed Biotechnol</i>,</p>

	2016. 44(1): p. 410-22.
	[13] Kafshdooz, L., et al., The application of gold nanoparticles as a promising therapeutic approach in breast and ovarian cancer. <i>Artif Cells Nanomed Biotechnol</i> , 2016. 44(5): p. 1222-7.
	[14] Elahi, N., M. Kamali, and M.H. Baghersad, Recent biomedical applications of gold nanoparticles: A review. <i>Talanta</i> , 2018. 184: p. 537-556.
	[15] Liu, Y., B.M. Crawford, and T. Vo-Dinh, Gold nanoparticles-mediated photothermal therapy and immunotherapy. <i>Immunotherapy</i> , 2018. 10(13): p. 1175-1188.
	[16] Singh, P., et al., Gold Nanoparticles in Diagnostics and Therapeutics for Human Cancer. <i>Int J Mol Sci</i> , 2018. 19(7).
	[17] Aminabad, N.S., M. Farshbaf, and A. Akbarzadeh, Recent Advances of Gold Nanoparticles in Biomedical Applications: State of the Art. <i>Cell Biochem Biophys</i> , 2019. 77(2): p. 123-137.
	[18] Taghizadeh, S., et al., Gold nanoparticles application in liver cancer. <i>Photodiagnosis Photodyn Ther</i> , 2019. 25: p. 389-400.
	[19] Fuller, M.A. and I. Koper, Biomedical applications of polyelectrolyte coated spherical gold nanoparticles. <i>Nano Converg</i> , 2019. 6(1): p. 11.
Biodistribution	[20] Guo, J., et al., Gold nanoparticles enlighten the future of cancer theranostics. <i>Int J Nanomedicine</i> , 2017. 12: p. 6131-6152.
	[21] Hwang, S., et al., Gold nanoparticle-mediated photothermal therapy: current status and future perspective. <i>Nanomedicine (Lond)</i> , 2014. 9(13): p. 2003-22.
	[22] Almeida, J.P., E.R. Figueroa, and R.A. Drezek, Gold nanoparticle mediated cancer immunotherapy. <i>Nanomedicine</i> , 2014. 10(3): p. 503-14.
Catalytic	[23] Song, S., et al., Functional nanoprobes for ultrasensitive detection of biomolecules. <i>Chem Soc Rev</i> , 2010. 39(11): p. 4234-43.
	[24] Jans, H. and Q. Huo, Gold nanoparticle-enabled biological and chemical detection and analysis. <i>Chem Soc Rev</i> , 2012. 41(7): p. 2849-66.

	[25] Wang, J. and X. Qu, Recent progress in nanosensors for sensitive detection of biomolecules. <i>Nanoscale</i> , 2013. 5(9): p. 3589-600.
	[11] Nie, L., et al., Applications of gold nanoparticles in optical biosensors. <i>J Biomed Nanotechnol</i> , 2014. 10(10): p. 2700-21.
	[26] Lo, V.K., A.O. Chan, and C.M. Che, Gold and silver catalysis: from organic transformation to bioconjugation. <i>Org Biomol Chem</i> , 2015. 13(24): p. 6667-80.
	[27] Jiang, P., et al., Applications of Gold Nanoparticles in Non-Optical Biosensors. <i>Nanomaterials (Basel)</i> , 2018. 8(12).
	[28] Chang, C.C., et al., Gold Nanoparticle-Based Colorimetric Strategies for Chemical and Biological Sensing Applications. <i>Nanomaterials (Basel)</i> , 2019. 9(6).
Colloidal stability	[29] Falahati, M., et al., Gold nanomaterials as key suppliers in biological and chemical sensing, catalysis, and medicine. <i>Biochim Biophys Acta Gen Subj</i> , 2020. 1864(1): p. 129435.
Drug delivery	[30] Kharisov, B.I., O.V. Kharissova, and S.S. Berdonosov, Radioactive nanoparticles and their main applications: recent advances. <i>Recent Pat Nanotechnol</i> , 2014. 8(2): p. 79-96.
	[12] Daraee, H., et al., Application of gold nanoparticles in biomedical and drug delivery. <i>Artif Cells Nanomed Biotechnol</i> , 2016. 44(1): p. 410-22.
	[14] Elahi, N., M. Kamali, and M.H. Baghersad, Recent biomedical applications of gold nanoparticles: A review. <i>Talanta</i> , 2018. 184: p. 537-556.
	[16] Singh, P., et al., Gold Nanoparticles in Diagnostics and Therapeutics for Human Cancer. <i>Int J Mol Sci</i> , 2018. 19(7).
	[31] Xu, J., et al., Research progress of novel inorganic nanometre materials carriers in nanomedicine for cancer diagnosis and treatment. <i>Artif Cells Nanomed Biotechnol</i> , 2018. 46(sup3): p. S492-S502.
	[17] Aminabad, N.S., M. Farshbaf, and A. Akbarzadeh, Recent Advances of Gold Nanoparticles in Biomedical Applications: State of the Art. <i>Cell Biochem Biophys</i> , 2019. 77(2): p. 123-137.
	[32] Das, P., et al., Multifunctional Magnetic Gold Nanomaterials

	for Cancer. <i>Trends Biotechnol</i> , 2019. 37(9): p. 995-1010.
	[19] Fuller, M.A. and I. Koper, Biomedical applications of polyelectrolyte coated spherical gold nanoparticles. <i>Nano Converg</i> , 2019. 6(1): p. 11.
	[33] Masse, F., et al., Gold nanoparticles in ophthalmology. <i>Med Res Rev</i> , 2019. 39(1): p. 302-327.
	[34] Mioc, A., et al., Gold Nanoparticles as Targeted Delivery Systems and Theranostic Agents in Cancer Therapy. <i>Curr Med Chem</i> , 2019. 26(35): p. 6493-6513.
	[35] Sharifi, M., et al., Plasmonic gold nanoparticles: Optical manipulation, imaging, drug delivery and therapy. <i>J Control Release</i> , 2019. 311-312: p. 170-189.
	[36] Singh, R., Nanotechnology based therapeutic application in cancer diagnosis and therapy. <i>3 Biotech</i> , 2019. 9(11): p. 415.
Localized surface plasmon resonance	[11] Nie, L., et al., Applications of gold nanoparticles in optical biosensors. <i>J Biomed Nanotechnol</i> , 2014. 10(10): p. 2700-21.
	[37] Samanta, A., S. Banerjee, and Y. Liu, DNA nanotechnology for nanophotonic applications. <i>Nanoscale</i> , 2015. 7(6): p. 2210-20.
	[38] Ahmad, R., et al., Advanced Gold Nanomaterials for Photothermal Therapy of Cancer. <i>J Nanosci Nanotechnol</i> , 2016. 16(1): p. 67-80.
	[39] Kim, H., et al., Near-infrared light-responsive nanomaterials for cancer theranostics. <i>Wiley Interdiscip Rev Nanomed Nanobiotechnol</i> , 2016. 8(1): p. 23-45.
	[20] Guo, J., et al., Gold nanoparticles enlighten the future of cancer theranostics. <i>Int J Nanomedicine</i> , 2017. 12: p. 6131-6152.
	[14] Elahi, N., M. Kamali, and M.H. Baghersad, Recent biomedical applications of gold nanoparticles: A review. <i>Talanta</i> , 2018. 184: p. 537-556.
	[40] Hussein, E.A., et al., Recent advances in functional nanostructures as cancer photothermal therapy. <i>Int J Nanomedicine</i> , 2018. 13: p. 2897-2906.
	[15] Liu, Y., B.M. Crawford, and T. Vo-Dinh, Gold nanoparticles-mediated photothermal therapy and immunotherapy.

- Immunotherapy, 2018. 10(13): p. 1175-1188.
- [16] Singh, P., et al., Gold Nanoparticles in Diagnostics and Therapeutics for Human Cancer. *Int J Mol Sci*, 2018. 19(7).
- [31] Xu, J., et al., Research progress of novel inorganic nanometre materials carriers in nanomedicine for cancer diagnosis and treatment. *Artif Cells Nanomed Biotechnol*, 2018. 46(sup3): p. S492-S502.
- [41] Yadav, P., et al., Gold laced bio-macromolecules for theranostic application. *Int J Biol Macromol*, 2018. 110: p. 39-53.
- [42] Ashikbayeva, Z., et al., Application of Nanoparticles and Nanomaterials in Thermal Ablation Therapy of Cancer. *Nanomaterials (Basel)*, 2019. 9(9).
- [28] Chang, C.C., et al., Gold Nanoparticle-Based Colorimetric Strategies for Chemical and Biological Sensing Applications. *Nanomaterials (Basel)*, 2019. 9(6).
- [32] Das, P., et al., Multifunctional Magnetic Gold Nanomaterials for Cancer. *Trends Biotechnol*, 2019. 37(9): p. 995-1010.
- [19] Fuller, M.A. and I. Koper, Biomedical applications of polyelectrolyte coated spherical gold nanoparticles. *Nano Converg*, 2019. 6(1): p. 11.
- [33] Masse, F., et al., Gold nanoparticles in ophthalmology. *Med Res Rev*, 2019. 39(1): p. 302-327.
- [34] Mioc, A., et al., Gold Nanoparticles as Targeted Delivery Systems and Theranostic Agents in Cancer Therapy. *Curr Med Chem*, 2019. 26(35): p. 6493-6513.
- [35] Sharifi, M., et al., Plasmonic gold nanoparticles: Optical manipulation, imaging, drug delivery and therapy. *J Control Release*, 2019. 311-312: p. 170-189.
- [36] Singh, R., Nanotechnology based therapeutic application in cancer diagnosis and therapy. *3 Biotech*, 2019. 9(11): p. 415.
- [43] Son, J., et al., Light-responsive nanomedicine for biophotonic imaging and targeted therapy. *Adv Drug Deliv Rev*, 2019. 138: p. 133-147.
- [44] Vines, J.B., et al., Gold Nanoparticles for Photothermal

	Cancer Therapy. Front Chem, 2019. 7: p. 167.
	[45] Khlebtsov, N.G., et al., Gap-enhanced Raman tags: fabrication, optical properties, and theranostic applications. Theranostics, 2020. 10(5): p. 2067-2094.
Photochemistry	[46] Urban, C., et al., Externally modulated theranostic nanoparticles. Transl Cancer Res, 2013. 2(4): p. 292-308.
Photophysics	[47] Susie, E. and e.-S.M. A, Why gold nanoparticles are more precious than pretty gold: noble metal surface plasmon resonance and its enhancement of the radiative and nonradiative properties of nanocrystals of different shapes. Chemical Society reviews, 2006. 35(3).
Radioactivity	[6] Coulter, J.A., et al., Radiosensitising nanoparticles as novel cancer therapeutics--pipe dream or realistic prospect? Clin Oncol (R Coll Radiol), 2013. 25(10): p. 593-603. [30] Kharisov, B.I., O.V. Kharissova, and S.S. Berdonosov, Radioactive nanoparticles and their main applications: recent advances. Recent Pat Nanotechnol, 2014. 8(2): p. 79-96.
Self-assembly	[48] Wu, C.S., F.K. Liu, and F.H. Ko, Potential role of gold nanoparticles for improved analytical methods: an introduction to characterizations and applications. Anal Bioanal Chem, 2011. 399(1): p. 103-18. [49] He, X.P., et al., Probing disease-related proteins with fluorogenic composite materials. Chem Soc Rev, 2015. 44(13): p. 4239-4248.
	[37] Samanta, A., S. Banerjee, and Y. Liu, DNA nanotechnology for nanophotonic applications. Nanoscale, 2015. 7(6): p. 2210-20.
	[50] Song, J., G. Niu, and X. Chen, Amphiphilic-Polymer-Guided Plasmonic Assemblies and Their Biomedical Applications. Bioconjug Chem, 2017. 28(1): p. 105-114.
	[31] Xu, J., et al., Research progress of novel inorganic nanometre materials carriers in nanomedicine for cancer diagnosis and treatment. Artif Cells Nanomed Biotechnol, 2018. 46(sup3): p. S492-S502.
Toxicity	[51] Gerber, A., et al., Gold nanoparticles: recent aspects for human toxicology. J Occup Med Toxicol, 2013. 8(1): p. 32.

	[52] Li, J., et al., Toxicity of inorganic nanomaterials in biomedical imaging. <i>Biotechnol Adv</i> , 2014. 32 (4): p. 727-43.
	[53] Hadrup, N., et al., Toxicological risk assessment of elemental gold following oral exposure to sheets and nanoparticles - A review. <i>Regul Toxicol Pharmacol</i> , 2015. 72 (2): p. 216-21.
	[54] De Matteis, V., Exposure to Inorganic Nanoparticles: Routes of Entry, Immune Response, Biodistribution and In Vitro/In Vivo Toxicity Evaluation. <i>Toxicics</i> , 2017. 5 (4).
	[55] Y.-P. Jia, B.-Y. Ma, X.-W. Wei, Z.-Y. Qian, The in vitro and in vivo toxicity of gold nanoparticles, <i>Chinese Chemical Letters</i> 28(04) (2017) 691-702.
	[16] Singh, P., et al., Gold Nanoparticles in Diagnostics and Therapeutics for Human Cancer. <i>Int J Mol Sci</i> , 2018. 19 (7).

1. Hao, E., G.C. Schatz, and J.T. Hupp, *Synthesis and optical properties of anisotropic metal nanoparticles*. *J Fluoresc*, 2004. **14**(4): p. 331-41.
2. Li, N., P. Zhao, and D. Astruc, *Anisotropic gold nanoparticles: synthesis, properties, applications, and toxicity*. *Angew Chem Int Ed Engl*, 2014. **53**(7): p. 1756-89.
3. Jones, S., et al., *Recent progress on the development of anisotropic gold nanoparticles: Design strategies and growth mechanism*. *J Environ Sci Health C Environ Carcinog Ecotoxicol Rev*, 2017. **35**(1): p. 47-66.
4. Reguera, J., et al., *Anisotropic metal nanoparticles for surface enhanced Raman scattering*. *Chem Soc Rev*, 2017. **46**(13): p. 3866-3885.
5. Kohout, C., C. Santi, and L. Polito, *Anisotropic Gold Nanoparticles in Biomedical Applications*. *Int J Mol Sci*, 2018. **19**(11).
6. Coulter, J.A., et al., *Radiosensitising nanoparticles as novel cancer therapeutics--pipe dream or realistic prospect?* *Clin Oncol (R Coll Radiol)*, 2013. **25**(10): p. 593-603.
7. Popescu, R.C., M.O. Fufa, and A.M. Grumezescu, *Metal-based nanosystems for diagnosis*. *Rom J Morphol Embryol*, 2015. **56**(2 Suppl): p. 635-49.
8. Torrisi, L., *Gold nanoparticles enhancing protontherapy efficiency*. *Recent Pat Nanotechnol*, 2015. **9**(1): p. 51-60.
9. Titus, D., E.J. Samuel, and S. Mohana Roopan, *Current scenario of biomedical aspect of metal-based nanoparticles on gel dosimetry*. *Appl Microbiol Biotechnol*, 2016. **100**(11): p. 4803-16.
10. Azharuddin, M., et al., *A repertoire of biomedical applications of noble metal nanoparticles*.

- Chem Commun (Camb), 2019. **55**(49): p. 6964-6996.
11. Nie, L., et al., *Applications of gold nanoparticles in optical biosensors*. J Biomed Nanotechnol, 2014. **10**(10): p. 2700-21.
 12. Daraee, H., et al., *Application of gold nanoparticles in biomedical and drug delivery*. Artif Cells Nanomed Biotechnol, 2016. **44**(1): p. 410-22.
 13. Kafshdooz, L., et al., *The application of gold nanoparticles as a promising therapeutic approach in breast and ovarian cancer*. Artif Cells Nanomed Biotechnol, 2016. **44**(5): p. 1222-7.
 14. Elahi, N., M. Kamali, and M.H. Baghersad, *Recent biomedical applications of gold nanoparticles: A review*. Talanta, 2018. **184**: p. 537-556.
 15. Liu, Y., B.M. Crawford, and T. Vo-Dinh, *Gold nanoparticles-mediated photothermal therapy and immunotherapy*. Immunotherapy, 2018. **10**(13): p. 1175-1188.
 16. Singh, P., et al., *Gold Nanoparticles in Diagnostics and Therapeutics for Human Cancer*. Int J Mol Sci, 2018. **19**(7).
 17. Aminabad, N.S., M. Farshbaf, and A. Akbarzadeh, *Recent Advances of Gold Nanoparticles in Biomedical Applications: State of the Art*. Cell Biochem Biophys, 2019. **77**(2): p. 123-137.
 18. Taghizadeh, S., et al., *Gold nanoparticles application in liver cancer*. Photodiagnosis Photodyn Ther, 2019. **25**: p. 389-400.
 19. Fuller, M.A. and I. Koper, *Biomedical applications of polyelectrolyte coated spherical gold nanoparticles*. Nano Converg, 2019. **6**(1): p. 11.
 20. Guo, J., et al., *Gold nanoparticles enlighten the future of cancer theranostics*. Int J Nanomedicine, 2017. **12**: p. 6131-6152.
 21. Hwang, S., et al., *Gold nanoparticle-mediated photothermal therapy: current status and future perspective*. Nanomedicine (Lond), 2014. **9**(13): p. 2003-22.
 22. Almeida, J.P., E.R. Figueroa, and R.A. Drezek, *Gold nanoparticle mediated cancer immunotherapy*. Nanomedicine, 2014. **10**(3): p. 503-14.
 23. Song, S., et al., *Functional nanoprobes for ultrasensitive detection of biomolecules*. Chem Soc Rev, 2010. **39**(11): p. 4234-43.
 24. Jans, H. and Q. Huo, *Gold nanoparticle-enabled biological and chemical detection and analysis*. Chem Soc Rev, 2012. **41**(7): p. 2849-66.
 25. Wang, J. and X. Qu, *Recent progress in nanosensors for sensitive detection of biomolecules*. Nanoscale, 2013. **5**(9): p. 3589-600.
 26. Lo, V.K., A.O. Chan, and C.M. Che, *Gold and silver catalysis: from organic transformation to bioconjugation*. Org Biomol Chem, 2015. **13**(24): p. 6667-80.

27. Jiang, P., et al., *Applications of Gold Nanoparticles in Non-Optical Biosensors*. Nanomaterials (Basel), 2018. **8**(12).
28. Chang, C.C., et al., *Gold Nanoparticle-Based Colorimetric Strategies for Chemical and Biological Sensing Applications*. Nanomaterials (Basel), 2019. **9**(6).
29. Falahati, M., et al., *Gold nanomaterials as key suppliers in biological and chemical sensing, catalysis, and medicine*. Biochim Biophys Acta Gen Subj, 2020. **1864**(1): p. 129435.
30. Kharisov, B.I., O.V. Kharissova, and S.S. Berdonosov, *Radioactive nanoparticles and their main applications: recent advances*. Recent Pat Nanotechnol, 2014. **8**(2): p. 79-96.
31. Xu, J., et al., *Research progress of novel inorganic nanometre materials carriers in nanomedicine for cancer diagnosis and treatment*. Artif Cells Nanomed Biotechnol, 2018. **46**(sup3): p. S492-S502.
32. Das, P., et al., *Multifunctional Magnetic Gold Nanomaterials for Cancer*. Trends Biotechnol, 2019. **37**(9): p. 995-1010.
33. Masse, F., et al., *Gold nanoparticles in ophthalmology*. Med Res Rev, 2019. **39**(1): p. 302-327.
34. Mioc, A., et al., *Gold Nanoparticles as Targeted Delivery Systems and Theranostic Agents in Cancer Therapy*. Curr Med Chem, 2019. **26**(35): p. 6493-6513.
35. Sharifi, M., et al., *Plasmonic gold nanoparticles: Optical manipulation, imaging, drug delivery and therapy*. J Control Release, 2019. **311-312**: p. 170-189.
36. Singh, R., *Nanotechnology based therapeutic application in cancer diagnosis and therapy*. 3 Biotech, 2019. **9**(11): p. 415.
37. Samanta, A., S. Banerjee, and Y. Liu, *DNA nanotechnology for nanophotonic applications*. Nanoscale, 2015. **7**(6): p. 2210-20.
38. Ahmad, R., et al., *Advanced Gold Nanomaterials for Photothermal Therapy of Cancer*. J Nanosci Nanotechnol, 2016. **16**(1): p. 67-80.
39. Kim, H., et al., *Near-infrared light-responsive nanomaterials for cancer theranostics*. Wiley Interdiscip Rev Nanomed Nanobiotechnol, 2016. **8**(1): p. 23-45.
40. Hussein, E.A., et al., *Recent advances in functional nanostructures as cancer photothermal therapy*. Int J Nanomedicine, 2018. **13**: p. 2897-2906.
41. Yadav, P., et al., *Gold laced bio-macromolecules for theranostic application*. Int J Biol Macromol, 2018. **110**: p. 39-53.
42. Ashikbayeva, Z., et al., *Application of Nanoparticles and Nanomaterials in Thermal Ablation Therapy of Cancer*. Nanomaterials (Basel), 2019. **9**(9).
43. Son, J., et al., *Light-responsive nanomedicine for biophotonic imaging and targeted therapy*.

- Adv Drug Deliv Rev, 2019. **138**: p. 133-147.
44. Vines, J.B., et al., *Gold Nanoparticles for Photothermal Cancer Therapy*. Front Chem, 2019. **7**: p. 167.
 45. Khlebtsov, N.G., et al., *Gap-enhanced Raman tags: fabrication, optical properties, and theranostic applications*. Theranostics, 2020. **10**(5): p. 2067-2094.
 46. Urban, C., et al., *Externally modulated theranostic nanoparticles*. Transl Cancer Res, 2013. **2**(4): p. 292-308.
 47. Susie, E. and e.-S.M. A, *Why gold nanoparticles are more precious than pretty gold: noble metal surface plasmon resonance and its enhancement of the radiative and nonradiative properties of nanocrystals of different shapes*. Chemical Society reviews, 2006. **35**(3).
 48. Wu, C.S., F.K. Liu, and F.H. Ko, *Potential role of gold nanoparticles for improved analytical methods: an introduction to characterizations and applications*. Anal Bioanal Chem, 2011. **399**(1): p. 103-18.
 49. He, X.P., et al., *Probing disease-related proteins with fluorogenic composite materials*. Chem Soc Rev, 2015. **44**(13): p. 4239-4248.
 50. Song, J., G. Niu, and X. Chen, *Amphiphilic-Polymer-Guided Plasmonic Assemblies and Their Biomedical Applications*. Bioconjug Chem, 2017. **28**(1): p. 105-114.
 51. Gerber, A., et al., *Gold nanoparticles: recent aspects for human toxicology*. J Occup Med Toxicol, 2013. **8**(1): p. 32.
 52. Li, J., et al., *Toxicity of inorganic nanomaterials in biomedical imaging*. Biotechnol Adv, 2014. **32**(4): p. 727-43.
 53. Hadrup, N., et al., *Toxicological risk assessment of elemental gold following oral exposure to sheets and nanoparticles - A review*. Regul Toxicol Pharmacol, 2015. **72**(2): p. 216-21.
 54. De Matteis, V., *Exposure to Inorganic Nanoparticles: Routes of Entry, Immune Response, Biodistribution and In Vitro/In Vivo Toxicity Evaluation*. Toxics, 2017. **5**(4).
 55. Jia, Y.-P., et al., *The in vitro and in vivo toxicity of gold nanoparticles*. Chinese Chemical Letters, 2017. **28**(04): p. 691-702.