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Referências Bibliográficas

- ¹ VINCENT J. B. and STALLINGS D.; Introduction: A history of chromium studies (1955–1995) - Department of Chemistry and Coalition for Biomolecular Products, The University of Alabama, Tuscaloosa, AL 35487-0336 Chapter 1
- ² LINDAY, L. A.; Trivalent chromium and the diabetes prevention program The College of Physicians and Surgeons, and The St Luke's-Roosevelt Hospital Center Medical Hypotheses 49, 47-49, (1997)
- ³ FELCMAN, J.; Elementos Químicos Importantes para a vida: I Cromo. Rebizzi S. A. Gráfica e Editora, SP, Brasil
- ⁴ KEY, W. F.; The transport of chromium(III) in the body: Implications for function - Laboratory of Nuclear Analytical Techniques, Institute of High Energy Physics, Chinese Academy of Sciences - Chapter 6
- ⁵ COTTON, F. A.; WILKINSON, G.; *Advanced Inorganic Chemistry*. 6th ed. Wiley. (1999).
- ⁶ GRAY, H. B.; LANGFORD, C. H.; Ligand Substitution Dynamics. A C&EN Feature, 68 – 76, (1968).
- ⁷ TAUBE, H.; Electron Transfer Between Metal Complexes – Retrospective; Nobel lecture, Department of Chemistry, Stanford University, Stanford, CA 94305, (1983)
- ⁸ TACKETT, J. E.; SAWYER, D.; Structure of Sodium Ethylenediaminetetraacetic Acid in Aqueous Solution. Correspondence, Inorganic Chemistry, 29, (1963)
- ⁹ WETZEL, H.; PETTINGER, B. and WENNING, U.; Surface-Enhanced Raman Scattering From Ethylenediaminetetra Acetic-Disodium Salt And Nitrate Ions On Silver Electrodes. Chemical Physics Letters, vol. 75, number 1, (1980)
- ¹⁰ SKOOG, WEST, HOLLER, CROUCH, Fundamentos de Química Analítica, Tradução da 8ª Edição norte-americana, Editora Thomson, São Paulo-SP, pág. 443 (2006)
- ¹¹ GALEMBECK, F.; CSORDAS, Y.; Cosméticos: a química da beleza, Sala de Leitura, CCEAD PUC-Rio
- ¹² WHEELER, W. D. e LEGG, J. I. - Solution Structure of the Chromium(III) Complex with edta by Deuteron NMR Spectroscopy - Inorganic Chemistry, 23, 3798-3802, (1984)
- ¹³ HAMM, R. E.; Complex Ions of Chromium. IV. The ethylenediaminetetraacetic Acid Complex with Chromium (III). Contribution From The Department of Chemistry Of The University Of Utah, Vol. 75, (1953)
- ¹⁴ KANAMORI, K; KAWAI, K; Raman Spectral Study on the Solution Struture of the Chromium (III)-Edta Complex. Inorg. Chem., 25, 3711-3713, (1986)

- ¹⁵ BAPTISTA, A. C. P. Estudo dos Compostos de Coordenação do Cr (III) com ácidos poliaminocarboxílicos em solução aquosa ácida. Tese de Doutorado. PUC-Rio (1989).
- ¹⁶ OGINO, H.; WATANABE, T. and TANAKA, N.; Equilibrium and Kinetic Studies of the Reactions of N-Substituted Ethylenediamine-N,N',N'-triacetatoaquachromium(III) with Acetate Ions. *Inorganic Chemistry*, Vol. 14, No. 9, (1975)
- ¹⁷ GERDOM, L. E.; BAENZIGER, N. A. and GOFF, H. M.; Crystal and Molecular Structure of a Substitution-Labile Chromium(III) Complex: Aquo(ethylenediaminetriacetatoacetic acid) chromium(III). *Inorganic Chemistry*, Vol. 20, No. 5, (1981)
- ¹⁸ RAJENDRA, D. P.; RAMASAMI, T.; RAMASWAMY, D. e SANTAPPA, M.; Substitution Lability of Chromium(III) omplex with Ground-State Distortion. *Inog. Chem.*, American Chemical Society, 3181 - 3183 (1980)
- ¹⁹ ZATZ, R.; Filtração Glomerular. Capítlo 1, Fisiopatia Renal.
- ²⁰ GUIMARÃES, J.; BASTOS, M.; MELO, M.; CARVALHEIRO, M.; NEFROPATIA DIABÉTICA, Taxa de Filtração Glomerular Calculada e Estimada. *Acta Med Port*; 20: 145-150 (2007)
- ²¹ NUNES, G. L. S.; Avaliação da função renal em pacientes hipertensos - Measurement of kidney function in patient with hypertension – *Rev. Bras. Hipertens*, vol. 14 (3), 162 – 166 (2007).
- ²² STACY, B. D.; THORBURN, G. D.; Chromium-51 Ethylenediaminetetraacetate for Estimation of Glomerular Filtration Rate, *Science*, vol. 152 (1966)
- ²³ PIEPSZ, A.; HAM, H. R.; Pediatric Applications of Renal Nuclear Medicine. *Seminar in Nuclear Medicine*, Elsevier, 16-35 (2006)
- ²⁴ MAZZOLA, A. A.; Ressonância magnética: princípios de formação da imagem e aplicações em imagem funcional. *Revista Brasileira de Física Médica*, 3(1):117-29 (2009)
- ²⁵ RUNGE, V. M.; FOSTER, M. A.; CLANTON, J. A.; JONES, M. M.; LUKEHART, C. M.; HUTCHISON, J. M. S.; MALLARD, J. R.; PATH. F. R. C.; SMITH, F. W.; PARTAIN, C. L.; JAMES JR, A. E.; Contrast Enhancement of Magnetic Resonance Images by Chromium EDTA: An Experimental Study. *Radiology*, 152, 123-126 (1984).
- ²⁶ RUNGE, V. M.; CLANTON, J. A.; LUKEHART, C. M.; PARTAIN, C. L.; JAMES JR, A. E.; Paramagnetic Agents for Contrast-Enhanced NMR Imaging: A Review. *American Roentgen Ray Society*, 1209-1215 (1983)
- ²⁷ FARADAY, M.; Source: *Philosophical Transactions of the Royal Society of London*, Vol. 147, pp. 145-181, (1857)
- ²⁸ HUANG, X.; JAIN, P. K.; EL-SAYED, I.H.; EL-SAYED, M. A.; Gold nanoparticles: interesting proprieties optical. *Review, Future Medicine, Nanomedicine*, 681-693 (2007)

- ²⁹ HU, T.; GAO, Y.; WANG, Z.; TANG, Z.; One-dimensional self-assembly of inorganic nanoparticles. *Front. Phys. China*, 4(4): 487–496 (2009)
- ³⁰ KHEBTSOV, N. G. Optics and biophotonics of nanoparticles with a plasmon resonance. *Quantum Electronics*, 38 (6), 504 - 529 (2008)
- ³¹ ASSUMPÇÃO, A. M. C.; Desenvolvimento de Nanossistemas Supra moleculares Baseados em complexos Terpiridínicos de Ferro (II). Tese de Mestrado, USP / IQ (2008)
- ³² ZAMARION, V. M.; Estudos e Aplicações de Ressonância Plasmônica Superficial em Nanosondas SERS. Tese mestrado, USP / IQ (2008)
- ³³ MAIER, S. A.; *Plasmonics: Fundamentals and Applications*, Springer (New York), (2007)
- ³⁴ SYLVESTRE, J. P.; POULIN, S.; KABASHIN, A. V.; SACHER, E.; MEUNIER, M.; and LUONG, J. H. T. Surface Chemistry of Gold Nanoparticles Produced by Laser Ablation in Aqueous Media. *J. Phys. Chem. B*, 108, 16864-16869 (2004)
- ³⁵ WRIEDT, T. Mie Theory: a Review. Chapter 2, *Springer Series in Optical Sciences*, 169 (2012)
- ³⁶ METIU, H.; *Progress in Surface Science*, 17, pp. 153-320, (1984);
- ³⁷ FORT, E.; GRÉSILLON, S.; *J. Phys. D: Appl. Phys.* 41 ,013001, (2008)
- ³⁸ LI, D. D.; et al, *Nanotechnology* , 24, 235502, (2013),
- ³⁹ FAZIO, E.; TRUSSO, S.; PONTERIO, R. C.; Surface-enhanced Raman scattering study of pigments using silver and gold nanoparticles prepared by pulsed laser ablation. *Applied Surface Science*, Applied Surface Science, Elsevier (2012)
- ⁴⁰ SILVERSTAIN, R. M.; BASSLER, G. C. ; MORRILL, T. C.; *Identificação Espectrométrica de Compostos Orgânicos*, 5ª Edição, Ed. Guanabara Koogan (1994)
- ⁴¹ RAMAN, C. V. and KRISHNAN, K. S., A New Type of Secondary Radiation, *Nature*, 121(3048), 501, March 31, (1928)
- ⁴² KNEIPP, K.; KNEIPP, H.; ITZZKAN, I.; DASARI, R. R.; FELD, M. S. Ultrasensitive Chemical Analysis by Raman Spectroscopy. *Chem. Review*, 99, 2957 – 2975 (1999)
- ⁴³ KEINMAN, S. L. ; FRONTIERA, R. R.; HENRY, A-I.; DIERINGER, J.A.; VAN DUYNE, R. P.; *Phys. Chem. Chem. Phys.*,15, 21-36. (2013)
- ⁴⁴ DÉBARRE, A.; JAFFIOL, R.; JULIEN, C.; TCHÉNIO, P.; MOSTAFAVI, M.; Raman scattering from single Ag aggregates in presence of EDTA. *Chemical Physics Letters*, 386, 244 – 247 (2004).
- ⁴⁵ XU, H.; AIZPURUA, J.; KALL, M.; APELL, P.; Electromagnetic contributions to single-molecule sensitivity in surface-enhanced Raman scattering. *Physical Review E*, Vol. 62, 4318 – 4324 (2000)

- ⁴⁶ HU, J.; WANG, Z. and LI J.; Gold Nanoparticles With Special Shapes: Controlled Synthesis, Surface-enhanced Raman Scattering, and The Application in Biodetection *Sensors*, 7, 3299-3311 (2007)
- ⁴⁷ BANIUKEVIC, J.; BOYACI, I. H.; BOZKURT, A. G.; TAMER, U.; RAMANAVICIUS, A.; RAMANAVICIENE, A. *Biosensors and Bioelectronics*, 5620, Sensors-book (2012)
- ⁴⁸ CAI, W.; GAO T.; HONG, H.; SUN, J.; Applications of gold nanoparticles in cancer nanotechnology. *Nanotechnology, Science and Applications*, 17 - 32 (2008)
- ⁴⁹ RACIOT, J.; Gold Nanoparticles: The future of cancer diagnosis and treatment. *Da Vinci's Notebook*, vol. 2 (2010).
- ⁵⁰ BARRETO, J. A.; O'MALLEY, W.; KUBEIL, M.; GRAHAM, B.; STEPHAN, H. and SPICCIA, L.; *Nanomaterials: Applications in Cancer Imaging and Therapy*, *Advanced Healthcare Materials*, volume 23, 12, (2011)
- ⁵¹ ZAVALA, C. L.; SMITH, B. R.; WALTON, I.; DOERING, W.; DAVIS, G.; SHOJAEI, B.; NATAN, M. J. and GAMBHIR, S. S.; Multiplexed imaging of surface enhanced Raman scattering nanotags in living mice using noninvasive Raman spectroscopy *PNAS* volume 106, nº 32, 13511-13516. Agosto, (2009)
- ⁵² TARASENKO, N.V.; BUTSEN, A.V.; NEVAR, E.A.; SAVASTENKO, N.A.; Synthesis of nanosized particles during laser ablation of gold in water, *Applied Surface Science* 252, pp. 4439–4444, (2006).
- ⁵³ HAJDUKOVÁ, N.; PROCHÁZKA, M.; STEPÁNEK, J.; SPÍRKOVÁ, M.; Chemically reduced and laser-ablated gold nanoparticles immobilized glass plates: Preparation, characterization and SERS spectral testing. *Colloids and Surfaces A*, 264 – 270 (2007).
- ⁵⁴ SEITZ, O.; CHEHIMI, M. M.; CABET-DELIRY, E.; TRUONG, S.; ELIDJ, N.; PERRUCHOT, C.; GREAVES S. J.; WATTS J. F.; Preparation and characterisation of gold nanoparticle assemblies on silanised glass plates. *Colloids and Surfaces A: Physicochem. Eng. Aspects* 218, 225 - 239 (2003)
- ⁵⁵ PFLEGER, J.; SMEJKAL, P.; VLCKOVÁ, B.; SLOUF, M.; Preparation of Ag nanoparticles by two wavelengths laser ablation and fragmentation. *Advanced Organic and Inorg. Materials*, vol. 5122, 198 - 205 (2003)
- ⁵⁶ GIORGETTI, E.; MIRANDA, M. M.; MARSILI, P.; SCARPELLINI, D.; GIAMMANCO, F.; Stable gold nanoparticles obtained in pure acetone by laser ablation with different wavelengths, *J. Nanopart. Res*, 14, pp. 648, (2012)
- ⁵⁷ MENEGHETTI, M. e AMENDOLA, V.; Laser ablation synthesis in solution and size manipulation of noble metal nanoparticles. *Phys. Chem. Chem. Phys.*, 11, 3805 – 3821 (2009)

- ⁵⁸ HAIDER, A.F.M.Y.; SENGUPTA, S.; ABEDIN, K. M.; TALUKDER, A. I.; Fabrication of gold nanoparticles in water by laser ablation technique and their characterization, *Appl. Phys. A*, 105, pp.487–495, (2011)
- ⁵⁹ RUSSO, R.E.; MAO, X.L.; YOO, J.H.; GONZALES, J.J.; Laser ablation, in *Laser Induced Breakdown Spectroscopy*, ed. by J.P. Singh, S. Narayan Thakur, Elsevier, Amsterdam, (2007)
- ⁶⁰ IMAM, H.; ELSAYED, K.; AHMED, M. A. .; RAMDAN, R.; Effect of Experimental Parameters on the Fabrication of Gold Nanoparticles via Laser Ablation. *Optics and Photonics Journal*, 2, 73-84 (2012)
- ⁶¹ KABASHIN, A. V. e MEUNIER, M.; Synthesis of colloidal nanoparticles during femtosecond laser ablation of gold in water. *Journal of Applied Physics*. Vol 94, 12, 7941 – 7943 (2003).
- ⁶² MAFUNE, F.; KOHNO, J.; TAKEDA, Y.; KONDOW, T.; Formation of Gold Nanoparticles by Laser Ablation in Aqueous Solution of Surfactant. *J. Phys. Chem. B*, 105, 5114-5120 (2001)
- ⁶³ SYLVESTRE, J. P.; POULIN, S.; KABASHIN, A. V.; SACHER, E.; MEUNIER, M.; LUONG J. H. T.; Surface Chemistry of Gold Nanoparticles Produced by Laser Ablation in Aqueous Media. *J. Phys. Chem. B*, 108, 16864-16869 (2004).
- ⁶⁴ ATKINS, P. e JONES, L.; *Princípios de Química*, Ed. Bookman (2001)
- ⁶⁵ DIAKOVA, G.; FULLER, Z.; VICTOR, K.; FUMINO K.; BRYANT R.G.; Chromium(III) complexes as intermolecular probes. *Journal of Magnetic Resonance*, 175, 65–72 (2005).
- ⁶⁶ NAKAMOTO, K. *Infrared and Raman Spectra of Inorganic and Coordination Compounds*. 4a edição (1986).
- ⁶⁷ GERDOM, L. E.; BAENZIGER, A. N. e GOFF, H. M.; Crystal and molecular structure of a substitution-labile Chromium(III) Complex: *Aquo(ethylenediaminetriacetatoacetic acid)chromium(III)*. *American Chemical Society, Inorg. Chem.*, 20, 1606 – 1609 (1981).
- ⁶⁸ HAIDER, A. F. M. Y.; SENGUPTA, S.; ABENDIN, K. M.; TALUKDER, A. I.; Fabrication of gold nanoparticles in water by laser ablation technique and their characterization. *Applied Physics A*, 1051, 487 – 495 (2011).
- ⁶⁹ PENG, Z.; WALTHER, T. e KARL K.; Photofragmentation of Phase-Transferred Gold Nanoparticles by Intense Pulsed Laser Light. *J. Phys. Chem. B* 109, 15735-15740 (2005).
- ⁷⁰ KUDELSKI, A.; Local monitoring of surface chemistry with Raman spectroscopy. *J. Solid Sate Electrochem.*, 13: 225 – 230 (2009)