

Publications of the Unit "Materials Physics and Optics"

2025

Scientific journals/Article

- Savorianakis, G., ROUSSEAU, C., Battie, Y., En Naciri, A., MAES, B., Voué, M., & KONSTANTINIDIS, S. (2025). Optical anisotropy of nanostructured vanadium dioxide thermochromic thin films synthesized by reactive magnetron sputtering combined with glancing angle deposition. "Surface and Coatings Technology", 131938. doi:10.1016/j.surfcoat.2025.131938
Full Text : [1-s2.0-S0257897225002129-main.pdf](#) (Open Access)
- Rassinfosse, L., Haye, E., Voué, M., Deparis, O., & Lucas, S. (2025). Optimization of plasmonic multilayer stacks through control of magnetron sputtering deposition conditions. "Vacuum".
Full Text : [VAC-D-25-00850.pdf](#) (Open Access)

2024

Scientific journals/Article

- Djemmah, S., Voué, M., Madi, Y., Allou, D., Haddad, A., & Bouchafaa, H. (29 August 2024). Investigation of microstructural and electrochemical behavior of chromized-doped layers with variant magnesium concentrations. "Sadhana, 49", 243. doi:10.1007/s12046-024-02573-1
Full Text : [article sarra djemmah---minor revision corrections.pdf](#) (Open Access)
- Savorianakis, G., Rousseau, C., Sergievskaya, A., Rosolen, G., Voué, M., Maes, B., & Konstantinidis, S. (2024). Plasmonic Resonance Shifts in Gold Nanoparticles-Thermochromic VO₂ Thin Film Hybrid Platforms: A Joint Experimental and Numerical Study. "Advanced Materials Interfaces". doi:10.1002/admi.202400172
Full Text : [_Adv Materials Inter - 2024 - Savorianakis - Plasmonic Resonance Shifts in Gold Nanoparticles Thermochromic VO2 Thin Film.pdf](#) (Open Access)
- Kfoury, P., Battie, Y., En Naciri, A., Broch, L., Voué, M., & Chaoui, N. (2024). Realtime spectroscopic ellipsometry of plasmonic Nanoparticles growth in PolyVinyl Alcohol thin films. "Journal of Nanoparticle Research". doi:10.1007/s11051-024-05937-0
Full Text : [Kfoury_JNR_2024.pdf](#) (Open Access)
- Kfoury, P., Battie, Y., En Naciri, A., Voué, M., & Chaoui, N. (08 January 2024). Rapid ellipsometric imaging characterization of nanocomposite films with an artificial neural network. "Optics Letters, 49" (3), 574-577. doi:10.1364/ol.514616
Full Text : [Optics_Letters_2024_Voué_accepted.pdf](#) (Open Access)

Scientific congresses and symposiums/Unpublished conference/Abstract

- Battie, Y., Kfoury, P., Voué, M., En Naciri, A., Chaoui, N., & Horwat, D. (28 October 2024). "Rapid ellipsometric imaging characterization of alloy and nanocomposite films with an artificial neural network" [Paper presentation]. Journées de la Matière Condensée 2024, Marseille, France.
Full Text : [Battie_et_al_JMC_2024_Marseille.pdf](#) (Open Access)
- Willame, T., Mimoso, C., Devouge, S., Guyot, C., & Voué, M. (28 October 2024). "Growth of metal nanoparticles in a polymer thin film: a molecular dynamics approach based on Langevin's equation" [Paper presentation]. Journées de la Matière Condensée 2024, Marseille, France.
Full Text : [JMC2024-Voue_et_al.pdf](#) (Open Access)
- Voué, M. (27 August 2024). "Optical properties of plasmonic nanocomposites at the (sub)micron scale" [Paper presentation]. Photonic composite elastomers workshop, Mons, Belgium.
Full Text : [Workshop_Odent_240827_V2.pdf](#) (Open Access)

- Battie, Y., Kfoury, P., Voué, M., En Naciri, O., & Chaoui, N. (29 February 2024). "Rapid ellipsometric imaging characterization of nanocomposite films with an artificial neural network" [Paper presentation]. E-MRS 2024 Spring, Strasbourg, France.

Scientific congresses and symposiums/Paper published in a journal

- Allou, D., Djemmah, S., Faci, Y., & Amraoui, R. (2024). Assessment of fatigue and corrosion effects on coating from the SMAW process. "The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM)". doi:10.55549/epstem.1605528
Full Text : [10.55549-epstem.1605528-4459056.pdf](#) (Open Access)

2023

Scientific journals/Article

- Djemmah, S., Madi, Y., Voué, M., Haddad, A., Allou, D., Ouallam, S., Bouchafaa, H., & Rezzoug, A. (October 2023). Effect of Mg Addition on the Morphology, Roughness and Adhesion of Cr Chromized layer Produced by pack Cementation. "International Journal of Engineering, Transactions A: Basics, 36" (10), 1773-1782. doi:10.5829/ije.2023.36.10a.05
Full Text : [IJE_Volume 36_Issue 10_Pages 1773-1782.pdf](#) (Open Access)
- De muijlder, T., Voué, M., & Leclère, P. (10 June 2023). Laser Ablation Synthesis of Silver Nanoparticles for Polymer Nanocomposites. "Energies, 16" (12), 4625. doi:10.3390/en16124625
Full Text : [energies-16-04625.pdf](#) (Open Access)
- Chauvin, A., Savorianakis, G., Horak, L., Dopita, M., Voué, M., Konstantinidis, S., Reniers, F., & Snyders, R. (08 May 2023). Photothermal properties of aluminum oxide/Ag nanoparticles cermet-based coating synthesized by reactive magnetron co-sputtering. "Surface and Coatings Technology, 466", 129595. doi:10.1016/j.surfcoat.2023.129595
Full Text : [Chauvin2023.pdf](#) (Open Access)

Scientific congresses and symposiums/Unpublished conference/Abstract

- Kfoury, P., Battie, Y., En Naciri, A., Broch, L., Voué, M., & Chaoui, N. (29 May 2023). "Plasmonic nanoparticles growth in polymeric thin films in situ monitored by spectroscopic ellipsometry" [Paper presentation]. E-MRS 2023 Spring Meeting, Strasbourg, France.
Full Text : [Abstract 00712.pdf](#) (Open Access)

Scientific congresses and symposiums/Poster

- Kfoury, P., Battie, Y., En Naciri, A., Broch, L., Voué, M., & Chaoui, N. (02 July 2023). "Realtime spectroscopic ellipsometry of plasmonic Nanoparticles growth in PolyVinyl Alcohol thin films" [Poster presentation]. École Résidentielle Interdisciplinaire en Nanosciences et Nanotechnologies - ERIN² C'Nano, Saint-Jacut-de-la-mer, France.
Full Text : [Poster_Kfoury_C'Nano_ERIN2_2023.pdf](#) (Open Access)

Diverse speeches and writings/Conference given outside the academic context

- Voué, M. (2023). "Dompter le temps : les miracles de la physique attoseconde" [Paper presentation]. Séminaire du département de physique - UMONS.
Full Text : [Attosecond_Physics-2.pdf](#) (Open Access)

2022

Scientific journals/Article

- Bouhy, J., Dekoninck, A., Voué, M., & Deparis, O. (20 September 2022). Analysis of accuracy and ambiguities in spatial measurements of birefringence in uniaxial anisotropic media. "Applied Optics, 61" (27), 8081-8090. doi:10.1364/ao.463657
Full Text : [ao-61-27-8081.pdf](#) (Open Access)

Scientific congresses and symposiums/Unpublished conference/Abstract

- Konstantinidis, S., Savorianakis, G., Sergievskaya, A., Mita, K., Shimizu, T., Maes, B., & Voué, M. (14 November 2022). "Thermochromic VO₂ thin films for smart window applications and temperature-controlled plasmonic response" [Paper presentation]. The International Symposium on Advanced Coatings and Applications, Benguerir, Morocco.
Full Text : [ISACAPP_22_abstract Konstantinidis.pdf](#) (Open Access)
- Kfoury, P., Battie, Y., En Naciri, A., Voué, M., & Chaoui, N. (15 September 2022). "Plasmonic nanoparticles growth in polymeric thin films in situ monitored by spectroscopic ellipsometry" [Paper presentation]. E-MRS Fall Meeting, Varsovie, Poland.
Full Text : [EMRS - 2022 - Kfoury et al.pdf](#) (Open Access)
- Chauvin, A., Savorianakis, G., Voué, M., Konstantinidis, S., Reniers, F., & Snyders, R. (14 September 2022). "Insights into the photothermal properties of Al₂O₃-Ag cermet coatings made by reactive magnetron co-sputtering" [Paper presentation]. 18th International Conference on Plasma Surface Engineering, Erfurt, Germany.
- Voué, M. (13 September 2022). "Optical properties of gold-based plasmonic nanocomposites" [Paper presentation]. International Workshop on Imaging Ellipsometry - IEW2022, Mons, Belgium.
Full Text : [Voue-IEW2022.pdf](#) (Open Access)
- Chauvin, A., Savorianakis, G., Voué, M., Konstantinidis, S., Reniers, F., & Snyders, R. (03 June 2022). "Study of the synthesis of Al₂O₃-Ag cermets by reactive magnetron co-sputtering for photothermal applications" [Paper presentation]. 2022 Spring Meeting of the European Materials Research Society (E-MRS).
- De muijlder, T., Voué, M., & Leclère, P. (08 March 2022). "Etude et caractérisation à la nanoéchelle des propriétés électriques et mécaniques de nanoparticules d'argent dispersées dans une matrice de polystyrène" [Paper presentation]. Forum des Microscopies à Sonde Locale 2022, Saint-Valéry-sur-Somme, France.
- De Muijlder, T., Voué, M., & Leclère, P. (2022). "Study and characterization at the nanoscale of electrical and mechanical properties of silver nanoparticles dispersed in a polystyrene matrix" [Paper presentation]. International Symposium On Polymer Nanocomposites, Lorient, France.
Full Text : [ISPN2022_Abstract.pdf](#) (Open Access)
- Konstantinidis, S., Savorianakis, G., Sergievskaya, A., Maes, B., & Voué, M. (2022). "Temperature-controlled plasmonic response of magnetron sputtered VO₂ thin film - gold nanoparticles hybrid materials" [Paper presentation]. The 22nd International Vacuum Congress (IVC-22), Sapporo, Japan.
Full Text : [Abstract IVC2022_Konstantinidis.pdf](#) (Open Access)

Scientific congresses and symposiums/Poster

- Savorianakis, G., Voué, M., & Konstantinidis, S. (12 September 2022). "Adhesion Kinetic Study of Gold Nanoparticles Functionalization using APTMS by Total Internal Reflection Ellipsometry (TIRE)" [Poster presentation]. International Workshop on Imaging Ellipsometry - IEW2022, Mons, Belgium.
Full Text : [Poster_Savorianakis_IEW-V2.pdf](#) (Open Access)
- Savorianakis, G., Sergievskaya, A., Voué, M., & Konstantinidis, S. (06 September 2022). "Synthesis of Vanadium Dioxide Thin Films Coupled with Gold Nanoparticles for Highly-Tunable Devices" [Poster presentation]. Mardi des Chercheurs.

Diverse speeches and writings/Other

- Rosolen, G., Daubie, E., Devouge, S., Gamrath, S., & Delplace, T. (2022). "Journées Math-Sciences : 'Explorons des phénomènes physiques'".

2021

Scientific journals/Article

- Michiels, M., Hemberg, A., Godfroid, T., Douheret, O., Colaux, J. L., Moskovkin, P., Lucas, S., Caillard, A., Thomann, A. L., Laha, P., Terryn, H., Voué, M., Panepinto, A., Snyders, R., & Konstantinidis, S. (05 July 2021). On the relationship between the plasma characteristics, the microstructure and the optical properties of reactively sputtered TiO₂ thin films. "Journal of Physics: D Applied Physics, 54" (41), 415202. doi:10.1088/1361-6463/ac118e
Full Text : [Michiels_2021.pdf](#) (Open Access)
- Savorianakis, G., Mita, K., Shimizu, T., Konstantinidis, S., Voué, M., & Maes, B. (13 May 2021). VO₂ nanostripe-based thin film with optimized color and solar characteristics for smart windows. "Journal of Applied Physics, 129", 185306. doi:10.1063/5.0049284
Full Text : [Savorianakis2021.pdf](#) (Open Access)
- Debaugnies, F., Mahadeb, B., Nagant, C., Meuleman, N., De Bels, D., Wolff, F., Gottignies, P., Salaroli, A., Borde, P., Voué, M., & Corazza, F. (2021). Biomarkers for early diagnosis of hemophagocytic lymphohistiocytosis in critically ill patients. "Journal of Clinical Immunology". doi:10.1007/s10875-020-00950-z
Full Text : [Debaugnies2021_Article_BiomarkersForEarlyDiagnosisOfH.pdf](#) (Open Access)

Scientific congresses and symposiums/Unpublished conference/Abstract

- Voué, M. (23 September 2021). "What can we learn from imaging ellipsometry analysis of plasmonic nanocomposite materials ?" [Paper presentation]. Belgian Photonics Online Meetup, Virtual, Belgium.
Full Text : [BePOM21-Voue.pdf](#) (Open Access)

Scientific congresses and symposiums/Poster

- Savorianakis, G., Sergievskaya, A., Voué, M., & Konstantinidis, S. (02 December 2021). "Synthesis of thermochromic VO₂ thin film coupled with gold nanoparticles for a temperature-dependent plasmonic signal" [Poster presentation]. General Scientific Meeting 2021 of the Belgian Physical Society, Hasselt, Belgium.
- Savorianakis, G. (23 September 2021). "VO₂ nanoribbon-based thin film with upgraded color and solar performance for smart windows" [Poster presentation]. Belgian Photonics Online Meetup, Virtual, Belgium.
Full Text : [bepom21-poster.pdf](#) (Open Access)
- Savorianakis, G., Konstantinidis, S., Voué, M., Maes, B., Mita, K., & Shimizu, T. (14 June 2021). "VO₂ Nanoribbon-based Thin Film with Upgraded Color and Solar Performance for Smart Windows" [Poster presentation]. Functional Coatings and Surface Engineering, online , Unknown/unspecified.
Full Text : [Dynamic_Poster-Savorianakis_Grégory-VO2_nanoribbons_for_smart_windows.pdf](#) (Open Access)

Diverse speeches and writings/Other

- Guyot, C., & Voué, M. (2021). "Control of optical properties of Ag-PVA plasmonic nanocomposites by film thickness: ellipsometry and multivariate analysis".
Full Text : [UDL_241121.pdf](#) (Open Access)

2020

Scientific journals/Article

- Sarrazin, M., Septembre, I., Hendrickx, A., Reckinger, N., Dellieu, L., Fleury, G., Seassal, C., Mazurczyk, R., Faniel, S., Devouge, S., Voué, M., & Deparis, O. (25 November 2020). Towards an experimental proof of superhydrophobicity enhanced by quantum fluctuations freezing on a broadband-absorber metamaterial. "Journal of Applied Physics, 128", 204303. doi:10.1063/5.0021541
Full Text : [JAP20-AR-04426.pdf](#) (Open Access)
- Guyot, C., & Voué, M. (17 October 2020). Intrinsic optical properties of Ag-doped poly-(vinyl alcohol) nanocomposites: an analysis of the film thickness effect on the plasmonic resonance parameters. "Applied Physics. A, Materials Science and Processing, 126", 870. doi:10.1007/s00339-020-04055-7
Full Text : [Guyot_et_Voué_-_2020_-_Intrinsic_optical_properties_of_Ag-doped_poly-\(vin.pdf](#) (Open Access)
- Guyot, C., Leclère, P., & Voué, M. (14 January 2020). Gold nanoparticles growing in a polymer matrix: what can we learn from spectroscopic imaging ellipsometry? "Journal of Vacuum Science and Technology. Part B, 38" (1), 013603. doi:10.1116/1.5129578
Full Text : [1.5129578.pdf](#) (Open Access)

Dissertations and theses/Doctoral thesis

- Guyot, C. (2020). "Plasmonic nanocomposites embedding gold and silver nanoparticles: in situ synthesis and local optical properties by spectroscopic imaging ellipsometry" [Doctoral thesis, Université de Mons]. ORBi UMONS-University of Mons. <https://orbi.umons.ac.be/handle/20.500.12907/33564>
Full Text : [Manuscrit_these_Corentin_Guyot_200513.pdf](#) (Open Access)

2019

Scientific journals/Article

- Guyot, C., Vandestruck, P., Marenne, I., Deparis, O., & Voué, M. (07 June 2019). Growth dynamics and light scattering of gold nanoparticles in situ synthesized at high concentration in thin polymer films. "Beilstein Journal of Nanotechnology, 10", 1768-1777. doi:10.3762/bjnano.10.172
Full Text : [2190-4286-10-172.pdf](#) (Open Access)

Scientific congresses and symposiums/Poster

- Guyot, C., Deparis, O., & Voué, M. (27 May 2019). "Gold nanoparticles growing in a polymer matrix : what can we learn from imaging ellipsometry ?" [Poster presentation]. The 8th International Conference on Spectroscopic Ellipsometry, Barcelone, Spain.
Full Text : [ICSE19-CG2.pdf](#) (Open Access)
- Guyot, C., & Voué, M. (05 March 2019). "Controlling intrinsic optical properties by film thickness" [Poster presentation]. Mardi des Chercheurs 2019 (MdC2019), Mons, Belgium.
Full Text : [MDC2019_CG_2.pdf](#) (Open Access)
- Mita, K., Silmina, A., Panepinto, A., Noirfalise, X., Savorianakis, G., Voué, M., Guyot, C., Yang, M., Shimizu, T., & Konstantinidis, S. (23 January 2019). "On the synthesis of VOx thin film by reactive magnetron sputtering" [Poster presentation]. The 15th International Symposium on Sputtering and Plasma Processes, Kanazawa, Japan.

Diverse speeches and writings/Other

- Daubie, E., Devouge, S., Rosolen, G., Altares Menendez, G., & Guyot, C. (2019). "Printemps des sciences 'la physique c'est élémentaire'".

2018

Scientific journals/Article

- Toncheva, A., Khelifa, F., Paint, Y., Voué, M., Lambert, P., Dubois, P., & Raquez, J. M. (09 August 2018). Fast IR-Actuated Shape-Memory Polymers Using in Situ Silver Nanoparticle-Grafted Cellulose Nanocrystals. "ACS Applied Materials and Interfaces, 10" (35), 29933-29942. doi:10.1021/acsami.8b10159
Full Text : [692 Dubois et al ACS Appl Mater Interfaces 2018 10 29933_29942.pdf](#) (Open Access)

Scientific congresses and symposiums/Unpublished conference/Abstract

- Guyot, C., Olivier, D., & Voué, M. (05 November 2018). "Light backscattering of gold nanoparticles at high concentration in a polymer matrix" [Paper presentation]. Metallic Nano-Objects, Lyon, France.
- Guyot, C., & Voué, M. (03 July 2018). "Reflectivity, imaging ellipsometry and scattering analysis of gold nanoparticles growing in a polymer matrix" [Paper presentation]. The 5th Researchers' Workshop of the Materials Research Institute, Mons, Belgium.

Scientific congresses and symposiums/Poster

- Guyot, C., Deparis, O., & Voué, M. (11 December 2018). "Scattering analysis, imaging ellipsometry and reflectivity of gold nanoparticles growing in a polymer matrix" [Poster presentation]. C'Nano 2018 The Nanoscience meeting, Toulon, France.
- Guyot, C., & Voué, M. (11 April 2018). "Reflectivity, imaging ellipsometry and scattering analysis of gold nanoparticles growing in a polymer matrix" [Poster presentation]. Meeting of the Belgian Physical Society, Anvers, Belgium.
Full Text : [BPS_CG.pdf](#) (Open Access)
- Guyot, C., Vandestruck, P., Marenne, I., Deparis, O., & Voué, M. (11 April 2018). "Reflectivity, imaging ellipsometry and scattering analysis of gold nanoparticles growing in a polymer matrix" [Poster presentation]. Meeting of the Belgian Physical Society, Anvers, Belgium.
Full Text : [BPS_CG.pdf](#) (Open Access)
- Seaali, B., Guyot, C., & Voué, M. (11 April 2018). "Real-time UV-Visible reflectometry as a tool to monitor the growth of noble metal nanoparticles in a polymer matrix" [Poster presentation]. Meeting of the Belgian Physical Society, Anvers, Belgium.
Full Text : [bochra-bps-meeting \(3\).pdf](#) (Open Access)
- Clément, J., Sicorello, G., Wampach, L., Guyot, C., & Voué, M. (11 April 2018). "Non-linear optical effects in colloidal suspensions in the continuous wave regime : A simple setup for undergraduate laboratory experiments" [Poster presentation]. Meeting of the Belgian Physical Society, Anvers, Belgium.
Full Text : [bps-meeting-2018 \(1\).pdf](#) (Open Access)

Diverse speeches and writings/Other

- Daubie, E., Devouge, S., Vaianella, F., Rosolen, G., Altares Menendez, G., & Guyot, C. (2018). "Printemps des Sciences 2018 : 'PlusQueNormal Activity'".

2017

Scientific congresses and symposiums/Poster

- Guyot, C., Vandestruck, P., Marenne, I., Deparis, O., & Voué, M. (04 July 2017). "Growth of gold nanoparticles in a polymer matrix : reflectivity and scattering analysis" [Poster presentation]. 4th Researcher's Day of the Materials Research Institute, Mons, Belgium.
Full Text : [JM4_CG_MV.pdf](#) (Open Access)

- Guyot, C., Vandestrack, P., Marenne, I., Deparis, O., & Voué, M. (17 May 2017). "Imaging ellipsometry and BRDF experiments of gold nanoparticles embedded in a polymer matrix" [Poster presentation]. General Scientific Meeting of the Belgian Physical Society, Mons, Belgium.
Full Text : [MDC-CG-MV.pdf](#) (Open Access)
- Guyot, C., Philippe, V., Marenne, I., Deparis, O., & Voué, M. (07 March 2017). "Imaging ellipsometry and BRDF experiments of gold nanoparticles embedded in a polymer matrix" [Poster presentation]. Huitième édition montoise du MdC : le Mardi des Chercheurs 2017, UMONS, Belgium.
Full Text : [MDC-CG-MV.pdf](#) (Open Access)

Diverse speeches and writings/Other

- Daubie, E., Devouge, S., Altares Menendez, G., Rivolta, N., & Guyot, C. (2017). "Physic's connecting people".
- Guyot, C. (2017). "Histoires d'ondes 2017".

2016

Scientific journals/Article

- Guyot, C., Stock, M., Hoenig, D., Thiesen, P., & Voué, M. (01 July 2016). Multivariate analysis for imaging ellipsometry data inversion. "Surface and Interface Analysis, (Soumis)".

Scientific congresses and symposiums/Unpublished conference/Abstract

- Guyot, C., Desprez, S., Paint, Y., Maseri, F., & Voué, M. (22 August 2016). "Thickness dependence of refractive index of Ag-PVA plasmonic nanocomposites" [Paper presentation]. JMC15 - Journées de la Matière Condensée, Bordeaux, France.
- Guyot, C., Zogning, C., & Voué, M. (18 May 2016). "Multivariate analysis in ellipsometry data processing. A review with examples of applications" [Paper presentation]. General meeting of the Belgian Physical Society (BPS), Ghent, Belgium.
- Guyot, C., ZOGNING, C. O., & Voué, M. (18 May 2016). "Multivariate analysis in ellipsometry data processing. A review with examples of applications" [Paper presentation]. General meeting of the Belgian Physical Society (BPS), Ghent, Belgium.

Scientific congresses and symposiums/Paper published in a journal

- Guyot, C., Vandestrack, P., Marenne, I., Deparis, O., & Voué, M. (2016). "Growth of gold nanoparticles in PVA films : imaging ellipsometry and diffraction pattern onset" [Paper presentation]. 7th International Conference on Spectroscopic Ellipsometry, Berlin, Germany.

Scientific congresses and symposiums/Poster

- Guyot, C., Zogning, C., STOCK, M., & Voué, M. (24 August 2016). "Hybrid clustering methods in imaging ellipsometry of plasmonic nanocomposites" [Poster presentation]. JMC15 - Journées de la Matière Condensée, Bordeaux, France.
- Guyot, C., ZOGNING, C. O., STOCK, M., & Voué, M. (22 August 2016). "Hybrid clustering methods in imaging ellipsometry of plasmonic nanocomposites" [Poster presentation]. JMC15 - Journées de la Matière Condensée, Bordeaux, France.
- Guyot, C., Vandestrack, P., Marenne, I., Deparis, O., & Voué, M. (05 July 2016). "Analysis of the growth of gold nanoparticles embedded in a polymer matrix : imaging ellipsometry and BRDF experiments" [Poster presentation]. The 3rd Researcher's Day of the Materials Research Institute -UMONS, Mons, Belgium.
Full Text : [JM3-CG.pdf](#) (Open Access)

- Guyot, C., & Voué, M. (16 May 2016). "Out-of-plane optical anisotropy in organic layers" [Poster presentation]. Annual Meeting of the Belgian Physical Society, Gand, Belgium.

Diverse speeches and writings/Other

- Daubie, E., Devouge, S., Vaianella, F., Rivolta, N., Rosolen, G., Altares Menendez, G., & Guyot, C. (2016). "La physique passe à table !"
- Guyot, C. (2016). "Histoires d'ondes 2016".

2015

Scientific congresses and symposiums/Unpublished conference/Abstract

- Guyot, C., & Voué, M. (22 May 2015). "Thickness-dependent refractive index in plasmonic nanocomposites: a principal components and support vector machines analysis" [Paper presentation]. 18th Annual Workshop of the IEEE Photonics Benelux Chapter, Mons, Belgium.

Scientific congresses and symposiums/Paper published in a journal

- Stock, M., Guyot, C., & Voué, M. (2015). "Spectroscopic imaging ellipsometry data inversion: a multivariate approach based on k-means and ascendant hierarchical clustering algorithms" [Paper presentation]. 18th Annual Workshop of the IEEE Photonics Benelux Chapter, Mons, Belgium.

Scientific congresses and symposiums/Poster

- ZOGNING, C. O., Guyot, C., Stock, M., & Voué, M. (30 June 2015). "Synthesis of silver nanoparticles using supercontinuum laser irradiation" [Poster presentation]. 2nd Researcher's Day of the Materials Research Institute, Mons, Belgium.
- Stock, M., Guyot, C., & Voué, M. (30 June 2015). "Imaging Ellipsometry: From mapping to local optical properties" [Poster presentation]. 2nd Researcher's Day of the Materials Research Institute, Mons, Belgium.
- Guyot, C., & Voué, M. (30 June 2015). "Optical behavior of plasmonic nanocomposites : a statistical analysis of the film thickness effect" [Poster presentation]. 2nd Researcher's Day of the Materials Research Institute, Mons, Belgium.
- Zogning, C., Guyot, C., STOCK, M., & Voué, M. (22 June 2015). "Synthesis of silver nanoparticles using supercontinuum laser irradiation" [Poster presentation]. 2nd Researcher's Day of the Materials Research Institute, Mons, Belgium.
- Guyot, C., & Voué, M. (08 May 2015). "Kinetics of growth of gold nanoparticles embedded in poly-(vinyl)alcohol films : an imaging ellipsometry study" [Poster presentation]. NANOWAL (The Wallonia Network for Nanotechnologies) and MAIN (The Materials, Interfaces and Nanostructures Doctoral School) on Nanomaterials and Energy, Mons, Belgium.
- Guyot, C., & Voué, M. (10 March 2015). "Real time growth of gold nanoparticles embedded in a polymer matrix" [Poster presentation]. 8ème édition de la Matinée des Chercheurs 2015 (MdC2015), Mons, Belgium.
Full Text : [2015-MDC2015-V3.pdf](#) (Open Access)
- Stock, M., & Voué, M. (10 March 2015). "Optical properties of silver nanorods and nanoprisms with controllable geometry" [Poster presentation]. 8ème édition de la Matinée des Chercheurs 2015 (MdC2015), Mons, Belgium.
Full Text : [Stock-MDC2015-final.pdf](#) (Open Access)

Diverse speeches and writings/Other

- Guyot, C., Rivolta, N., Daubie, E., Vaianella, F., Rosolen, G., & Stock, M. (2015). "50 ans de la faculté des Sciences : 'La lumière dans tous ses états'".
- Guyot, C. (2015). "Histoires d'ondes 2015".

- Guyot, C., Daubie, E., Stock, M., Rivolta, N., Vaianella, F., & Rosolen, G. (2015). "Journées Math-Sciences : 'La lumière dans tous ses états'".

2014

Scientific congresses and symposiums/Paper published in a journal

- Guyot, C., Stock, M., Hoenig, D., Thiesen, P., & Voué, M. (2014). "Speeding-up imaging ellipsometry data cubes processing: a multivariate approach" [Paper presentation]. 8th Workshop Ellipsometry, Dresden, Germany.
Full Text : [Dresden_SE_2014_Voue_2.pdf](#) (Open Access)
- Guyot, C., & Voué, M. (2014). "Anomalous optical behavior of metal-polymer nanocomposites" [Paper presentation]. 8th Workshop Ellipsometry, Dresden, Germany.
Full Text : [Dresden_SE_2014_Voue.pdf](#) (Open Access)

Scientific congresses and symposiums/Poster

- Guyot, C., & Voué, M. (25 August 2014). "Kinetics of growth of silver and gold nanoparticles in a polymer matrix : How do they modify its optical properties" [Poster presentation]. Condensed Matter in Paris 2014, Paris, France.
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