Table S10: Reference of the optical data used to generate thee Hamaker constants through the Lifschitz theory

Material	References
Crocidolite	Joseph L. Rosenholtz, Dudley T. Smith; The dielectric constant of mineral powders. American Mineralogist 1936;; 21 (2): 115–120.
	C. D. Gribble, A. J. Hall, A Practical Introduction to Optical Mineralogy , 1985, Springer, https://doi.org/10.1007/978-94-011-7804-4
CdTe	I. Strzalkowski, S. Joshi, C. R. Crowell, Dielectric constant and its temperature dependence for GaAs, CdTe, and ZnSe ,Appl. Phs. Lett. 28 350 (1076), https://doi.org/10.1063/1.88755
CeO2	Takenori Yamamoto, Hiroyoshi Momida, Tomoyuki Hamada, Tsuyoshi Uda, Takahisa Ohno, First-principles study of dielectric properties of cerium oxide, Thin Solid Films, 486 1 (2005) https://doi.org/10.1016/j.tsf.2004.11.240
	S.Vangelista, R.Piagge, S.Ek, T.Sarnet, G.Ghidini, C.Martella, A.Lamperti, Structural, chemical and optical properties of cerium dioxide film prepared by atomic layer deposition on TiN and Si substrates, Thin Solid Films, 636, (2017) https://doi.org/10.1016/j.tsf.2017.05.034
	W. Liu, J. Rose, S. Plantevin, M. Auffan, J.-Y. Bottero, C. Vidaud, Nanoscale, 2013,5, 1658-1668 , https://doi.org/10.1039/C2NR33611A
CuO	N. R. Dhineshbabu, V. Rajendran, N. Nithyavathy & R. Vetumperumal ,Study of structural and optical properties of cupric oxide nanoparticles. Appl Nanosci 6, 933–939 (2016) https://doi.org/10.1007/s13204-015-0499-2
	P. S. Vindhya, T. Jeyasingh, and V. T. Kavitha, Dielectric properties of copper oxide nanoparticles using AnnonaMuricata leaf, AIP Conference Proceedings 2162, 020021 (2019); https://doi.org/10.1063/1.5130231
PLGA	Chaudhuri, Biswadeep, B. Mondal, and D. Bhadra. "Biocompatibility of poly (lactic-co-glycolic acid)-Graphene oxide nanoplatelets composite using cryopreserved human stem cells." Chem Sci Rev Lett 6 (2017): 1831-6.
	Kondyurin, Alexey, Irina Kondyurina, and Marcela Bilek. "Biodegradable drug eluting coating of cardiovascular stents dewets and can cause thrombosis." arXiv preprint arXiv:1101.0659 (2011)
	Costa MP, Feitosa ACS, Oliveira FCE, Cavalcanti BC, Dias GG, Caetano EWS, Sales FAM, Freire VN, Di Fiore S, Fischer R, Ladeira LO, da Silva Júnior EN, Pessoa C. Encapsulation of nor-β-lapachone into poly(d,l)-lactide-co-glycolide (PLGA) microcapsules: full characterization, computational details and cytotoxic activity against human cancer cell lines. Medchemcomm. 2017 Sep 7;8(10):1993-2002. doi: 10.1039/c7md00196g.
	PolySciTech Division of AKINA, INC, WhitePaper: Polymer UV-Vis Absorption, http://akinainc.com/pdf/2020%20Whitepaper-%20UV-Vis%20absorbance.pdf
PMMA	P. Maji, Improved electrical and optical properties of a poly(methyl methacrylate) nanocomposite, SPE Journal, DOI:10.2417/spepro.006492
Soda glass	All About Soda Lime Glass - Composition and Properties , https://www.thomasnet.com/articles/plant-facility-equipment/soda-lime-glass/
	S.M.Karazi, I.U.Ahad, K.Y.Benyounis, Laser Micromachining for Transparent Materials, Reference Module in Materials Science and Materials Engineering (2017), https://doi.org/10.1016/B978-0-12-803581-8.04149-7
	S. Karlsson, L. G. Bäck, P. Kidkhunthod, K. Lundstedt, and L. Wondraczek , Effect of TiO2 on optical properties of glasses in the soda-lime-silicate system, Optical Materials Express 6 (2016), https://doi.org/10.1364/OME.6.001198
Graphene	Bellucci S, Maffucci A, Maksimenko S, Micciulla F, Migliore MD, Paddubskaya A, Pinchera D, Schettino F. Electrical Permittivity and Conductivity of a Graphene Nanoplatelet Contact in the Microwave Range. Materials (Basel). 2018 Dec 11;11(12):2519. doi: 10.3390/ma11122519. PMID: 30545012; PMCID: PMC6317038.
Graphite	Fukushima J, Tsubaki S, Matsuzawa T, Kashimura K, Mitani T, Namioka T, Fujii S, Shinohara N, Takizawa H, Wada Y. Effect of Aspect Ratio on the Permittivity of Graphite Fiber in Microwave Heating. Materials (Basel). 2018 Jan 22;11(1):169. doi: 10.3390/ma11010169. PMID: 29361758; PMCID: PMC5793667
CNT	Park SH, Thielemann P, Asbeck P, Bandaru PR. Enhanced dielectric constants and shielding effectiveness of, uniformly dispersed, functionalized carbon nanotube composites. Applied Physics Letters. 2009 Jun 15;94(24):243111. https://doi.org/10.1063/1.3156032
CarbonAmorph	M. Gioti, S. Logothetidis, Dielectric function, electronic properties and optical constants of amorphous carbon and carbon nitride films, Diamond and Related Materials 12 (2003), https://doi.org/10.1016/S0925-9635(02)00222-4
Diamond	CVD Diamond, http://www.cvd-diamond.com/properties_en.htm
	Ramanathan, K.G. The absorption of ultraviolet radiation by diamond. Proc. Indian Acad. Sci. (Math. Sci.) 24, 137 (1946). https://doi.org/10.1007/BF03170748
CoCl2	https://refractiveindex.info/
Cristobalite	https://refractiveindex.info/
Magnetite	https://refractiveindex.info/
Metal (generic conductive material)	https://refractiveindex.info/
SiO2_Amorphous	https://refractiveindex.info/
TiO2_Anatase	https://refractiveindex.info/
TiO2_Rut5_Ana5	https://refractiveindex.info/
TiO2_Rut815_Ana815	https://refractiveindex.info/
ZnO	https://refractiveindex.info/