

Fișa de verificare

privind îndeplinirea standardelor minime necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și al gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare

Comisia: Fizică

Candidat: Conf. dr. Nicolae Leopold

Researcher ID: B-5790-2011

Punctaj realizat conform metodologiei publicate în Ordinului Ministrului Educației Naționale și Cercetării Științifice nr. 6.129/20.12.2016:

1. Activitatea didactică și profesională: **A=5.38**
2. Activitatea de cercetare: **I=8.89; P=10.10**
3. Recunoașterea impactului activității: **C=512.99**

Indicele Hirsch: **h=15**

Punctajul total CNATDCU: **$T=A+P/2+I/2+C/20+h/5=43.5$**

1. Activitatea didactică și profesională

Nr.crt.	Tipul activităților	Indicatori
1	<p>1.2 Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor</p> <p>N. Leopold, T. Mutschler, R. Frank, G. Gauglitz, Label-free optical sensing techniques, in Biophotonics: Visions for a Better Health Care, Chapter 8: Micro array biochips - Thousands of reactions on a small chip, J. Popp, M. Strehle (Eds.), p. 433-443, Wiley-VCH, Berlin, Germany, 2006, ISBN 3-527-40622-0</p>	0.25
2	<p>1.4 Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul colaborărilor mari</p> <p>N. Leopold, Surface-Enhanced Raman Spectroscopy. Selected Applications, Ed. Napoca Star, 2009, 155 pages, ISBN 9789736474989</p> <p>V. Chiș, V. Simon, N. Leopold, Probleme de Fizica Moleculei, Litografia Universitatii Babeș-Bolyai, Cluj-Napoca, 2001, 151 pages</p> <p>V. Simon, N. Leopold, V. Chiș, Aufgaben zur Molekülphysik, Litografia Universitatii Babeș-Bolyai, Cluj-Napoca, 2000, 152 pages</p>	0.5 0.16 0.16
3	<p>1.5 Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor</p> <p>N. Leopold, <i>Spectroscopia de absorbție în infraroșu. Tendințe moderne în Spectroscopia de absorbție în infraroșu</i>, în Metode experimentale avansate pentru studiul și analiza bio-nano-sistemelor, editori M. Aluaș, S. Simon, Casa Cărții de Știință, Cluj-Napoca 2012, p.134-159</p>	0.2
4	<p>Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI</p> <p>Dina, N. E., A. Colnita, N. Leopold and C. Haisch, <i>Rapid single-cell detection and identification of bacteria by using surface-enhanced Raman spectroscopy</i>, Proceedings Paper, Conference: 26th Anniversary World Congress on Biosensors (Biosensors 2016), Gothenburg, SWEDEN, MAY 25-27, 2016 Book Series: Procedia Technology, Volume: 27, Pages: 203-207, Edited by: A. Turner and A. Tang Publisher, Elsevier Science Bv Amsterdam, Netherlands, 2017</p>	0.05

Nr. crt.	Autori	Titlu articol	Revista	An	Vol.	Pag. start	Pag. sf.	Nr. autori	N_ef	AIS	I=ΣAIS/N_ef	Nr. citari	C=ΣNr. cit/N_ef	Prim (1-prim, 0-altfel)	P=ΣAIS
82	Mot, A.C., Bischin, C., Damian, G., Attia, A.A.A., Gal, E., Dina, N., Leopold, N., Silaghi-Dumitrescu, R.	Fe(III) – Sulfide interaction in globins: Characterization and quest for a putative Fe(IV)-sulfide species	Journal of Inorganic Biochemistry	2018	179	32	39	8	6.500	0.638	0.098	0	0.000	0	0.000
81	Mot, A.C., Pârvu, M., Pârvu, A.E., Roșca-Casian, O., Dina, N.E., Leopold, N., Silaghi-Dumitrescu, R., Mircea, C.	Reversible naftifine-induced carotenoid depigmentation in <i>Rhodotorula mucilaginosa</i> (A. Jörg.) F.C. Harrison causing onychomycosis	Scientific Reports	2017	7	11125		8	6.500	1.484	0.228	0	0.000	0	0.000
80	Leopold, L.F., Tódor, I.S., Diaconeasa, Z., Rugină, D., Ștefancu, A., Leopold, N., Coman, C.	Assessment of PEG and BSA-PEG gold nanoparticles cellular interaction	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2017	532	70	76	7	6.000	0.561	0.094	0	0.000	0	0.000
79	Colniță, A., Dina, N.E., Leopold, N., Vodnar, D.C., Bogdan, D., Porav, S.A., David, L.	Characterization and discrimination of gram-positive bacteria using raman spectroscopy with the aid of principal component analysis	Nanomaterials	2017	7	248		7	6.000	0.797	0.133	1	0.167	0	0.000
78	Dina, N.E., Leș, A., Baricz, A., Szöke-Nagy, T., Leopold, N., Sârbu, C., Banciu, H.L.	Discrimination of haloarchaeal genera using Raman spectroscopy and robust methods for multivariate data analysis	Journal of Raman Spectroscopy	2017	48	1122	1126	7	6.000		0.000	0	0.000	0	0.000
77	Bischin, C., Mot, A., Ștefancu, A., Leopold, N., Hathazi, D., Damian, G., Silaghi-Dumitrescu, R.	Chlorite reactivity with myoglobin: Analogy with peroxide and nitrite chemistry?	Journal of Inorganic Biochemistry	2017	172	122	128	7	6.000	0.638	0.106	0	0.000	0	0.000
76	Dina, N.E., Zhou, H., Colniță, A., Leopold, N., Szoke-Nagy, T., Coman, C., Haisch, C.	Rapid single-cell detection and identification of pathogens by using surface-enhanced Raman spectroscopy	Analyst	2017	142	1782	1789	7	6.000	0.584	0.097	3	0.500	0	0.000

75	Andrei, A.-S., Pausan, M.R., Tamas, T., Har, N., Barbu-Tudoran, L., Leopold, N., Banciu, H.L.	Diversity and biomineralization potential of the epilithic bacterial communities inhabiting the oldest public stone monument of Cluj-Napoca (Transylvania, Romania)	Frontiers in Microbiology	2017	8			7	6.000	1.341	0.224	1	0.167	0	0.000
74	Buja, O.-M., Gordan, O.D., Leopold, N., Morschhauser, A., Nestler, J., Zahn, D.R.T.	Microfluidic setup for on-line SERS monitoring using laser induced nanoparticle spots as SERS active substrate	Beilstein Journal of Nanotechnology	2017	8	237	243	6	5.500	0.794	0.144	2	0.364	1	0.794
73	Luchian, R., Vințeler, E., Chiș, C., Vasilescu, M., Leopold, N., Prates Ramalho, J.P., Chiș, V.	Conformational Preference and Spectroscopical Characteristics of the Active Pharmaceutical Ingredient Levetiracetam	Journal of Pharmaceutical Sciences	2017	106	3564	3573	8	6.500	0.628	0.097	0	0.000	0	0.000
72	Dina, N.E., Muntean, C.M., Leopold, N., Fălămas, A., Halmagyi, A., Coste, A.	Structural changes induced in grapevine (<i>Vitis vinifera</i> L.) DNA by femtosecond ir laser pulses: A surface-enhanced Raman spectroscopic study	Nanomaterials	2016	6	96		6	5.500	0.797	0.145	1	0.182	0	0.000
71	Luchian, R., Vințeler, E., Chiș, C., Vasilescu, M., Leopold, N., Chiș, V.	Molecular structure of phenytoin: NMR, UV-Vis and quantum chemical calculations	Croatica Chemica Acta	2015	88	511	522	6	5.500	0.185	0.034	1	0.182	0	0.000
70	Marisca, O.T., Kantner, K., Pfeiffer, C., Zhang, Q., Pelaz, B., Leopold, N., Parak, W.J., Rejman, J.	Comparison of the in vitro uptake and toxicity of collagen-and synthetic polymer-coated gold nanoparticles	Nanomaterials	2015	5	1418	1430	8	6.500	0.687	0.106	11	1.692	0	0.000
69	Boitor, R.A., Tódor, I.S., Leopold, L.F., Leopold, N.	Room temperature synthesis of highly monodisperse and sers-active glucose-reduced gold nanoparticles	Journal of Applied Spectroscopy	2015	82	A013		4	4.000	0.105	0.026	2	0.500	0	0.000
68	Muntean, C.M., Leopold, N., Tripon, C., Coste, A., Halmagyi, A.	Surface-enhanced Raman spectroscopy of genomic DNA from in vitro grown tomato (<i>Lycopersicon esculentum</i> Mill.) cultivars before and after plant cryopreservation	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2015	144	107	114	5	5.000	0.373	0.075	4	0.800	0	0.000

67	Muntean, C.M., Bratu, I., Leopold, N., Morari, C., Buimaga-Iarinca, L., Purcaru, M.A.P.	Subpicosecond surface dynamics in genomic DNA from in vitro-grown plant species: A SERS assessment	Physical Chemistry Chemical Physics	2015	17	21323	21330	6	5.500	1.158	0.211	2	0.364	0	0.000
66	Coman, C., Leopold, L.F., Rugină, O.-D., Diaconeasa, Z., Bolfă, P.F., Leopold, N., Tofană, M., Socaciu, C.	Protein-capped gold nanoparticles obtained by a green synthesis method	Studia Universitatis Babeș-Bolyai Chemia	2015	60	119	126	8	6.500	0.017	0.003	1	0.154	0	0.000
65	Ungurean, A., Oltean, M., David, L., Leopold, N., Prates Ramalho, J.P., Chiș, V.	Adsorption of sulfamethoxazole molecule on silver colloids: A joint SERS and DFT study	Journal of Molecular Structure	2014	1073	71	76	6	5.500	0.295	0.054	6	1.091	0	0.000
64	Szabó, L., Herman, K., Mircescu, N.E., Tódor, I.S., Simon, B.L., Boitor, R.A., Leopold, N., Chiș, V.	Surface-enhanced Raman scattering and DFT investigation of 1,5-diphenylcarbazide and its metal complexes with Ca(II), Mn(II), Fe(III) and Cu(II)	Journal of Molecular Structure	2014	1073	10	17	8	6.500	0.295	0.045	2	0.308	0	0.000
63	Buja, O.M., Mircescu, N.E., Leopold, N.	Raman Scattering Enhancement of Peg Coated Gold Nanoparticles of Defined Size	Journal of Applied Spectroscopy	2014	81	411	415	3	3.000	0.108	0.036	1	0.333	0	0.000
62	Tódor, I.S., Szabó, L., Marișca, O.T., Chiș, V., Leopold, N.	Gold nanoparticle assemblies of controllable size obtained by hydroxylamine reduction at room temperature	Journal of Nanoparticle Research	2014	16	2740		5	5.000	0.596	0.119	3	0.600	1	0.596
61	Coman, C., Leopold, L.F., Rugină, O.D., Barbu-Tudoran, L., Leopold, N., Tofană, M., Socaciu, C.	Green synthesis of gold nanoparticles by Allium sativum extract and their assessment as SERS substrate	Journal of Nanoparticle Research	2014	16	2158		7	6.000	0.647	0.108	7	1.167	0	0.000
60	Vlad, I.E., Marisca, O.T., Vulpoi, A., Simon, S., Leopold, N., Anghel, S.D.	Simple approach for gold nanoparticle synthesis using an Ar-bubbled plasma setup	Journal of Nanoparticle Research	2014	16	2633		6	5.500	0.596	0.108	5	0.909	0	0.000
59	Mircescu, N.E., Zhou, H., Leopold, N., Chis, V., Ivleva, N.P., Niessner, R., Wieser, A., Haisch, C.	Towards a receptor-free immobilization and SERS detection of urinary tract infections causative pathogens	Analytical and Bioanalytical Chemistry	2014	406	3051	3058	8	6.500	0.910	0.140	17	2.615	0	0.000

58	Yang, D., Mircescu, N.E., Zhou, H., Leopold, N., Chiș, V., Oltean, M., Ying, Y., Haisch, C.	DFT study and quantitative detection by surface-enhanced Raman scattering (SERS) of ethyl carbamate	Journal of Raman Spectroscopy	2013	44	1491	1496	8	6.500	0.571	0.088	10	1.538	0	0.000
57	Leopold, N., Chiș, V., Mircescu, N.E., Marișca, O.T., Buja, O.M., Leopold, L.F., Socaciu, C., Braicu, C., Irimie, A., Berindan-Neagoe, I.	One step synthesis of SERS active colloidal gold nanoparticles by reduction with polyethylene glycol	Colloids and Surfaces A: Physicochemical and Engineering Aspects	2013	436	133	138	10	7.500	0.555	0.074	16	2.133	1	0.555
56	Oltean, M., Mile, G., Vidrighin, M., Leopold, N., Chiș, V.	Weakly bound PTCDI and PTCD A dimers studied by using MP2 and DFT methods with dispersion correction	Physical Chemistry Chemical Physics	2013	15	13978	13990	5	5.000	1.184	0.237	3	0.600	0	0.000
55	Muntean, C.M., Leopold, N., Halmagyi, A., Valimareanu, S.	Surface-enhanced Raman scattering assessment of DNA from leaf tissues adsorbed on silver colloidal nanoparticles	Journal of Raman Spectroscopy	2013	44	817	822	4	4.000	0.571	0.143	12	3.000	0	0.000
54	Herman, K., Mircescu, N.E., Szabo, L., Leopold, L.F., Chiș, V., Leopold, N.	In Situ silver spot preparation and on-plate surface-enhanced Raman scattering detection in thin layer chromatography separation	Journal of Applied Spectroscopy	2013	80	311	314	6	5.500	0.137	0.025	4	0.727	0	0.000
53	Stiufiuc, R., Iacovita, C., Lucaciu, C.M., Stiufiuc, G., Dutu, A.G., Braescu, C., Leopold, N.	SERS-active silver colloids prepared by reduction of silver nitrate with short-chain polyethylene glycol	Nanoscale Research Letters	2013	8	1	5	7	6.000	0.672	0.112	36	6.000	0	0.000
52	Ungurean, A., Leopold, N., David, L., Chiș, V.	Vibrational spectroscopic and DFT study of trimethoprim	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2013	102	52	58	4	4.000	0.350	0.088	4	1.000	0	0.000
51	Oltean, M., Calborean, A., Mile, G., Vidrighin, M., Iosin, M., Leopold, L., Maniu, D., Leopold, N., Chiș, V.	Absorption spectra of PTCDI: A combined UV-Vis and TD-DFT study	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2012	97	703	710	9	7.000	0.356	0.051	16	2.286	0	0.000
50	Mircescu, N.E., Oltean, M., Chiș, V., Leopold, N.	FTIR, FT-Raman, SERS and DFT study on melamine	Vibrational Spectroscopy	2012	62	165	171	4	4.000	0.352	0.088	54	13.500	1	0.352

49	Szabó, L., Herman, K., Mircescu, N.E., Fălămaș, A., Leopold, L.F., Leopold, N., Buzumurgă, C., Chiș, V.	SERS and DFT investigation of 1-(2-pyridylazo)-2-naphthol and its metal complexes with Al(III), Mn(II), Fe(III), Cu(II), Zn(II) and Pb(II)	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2012	93	266	273	8	6.500	0.356	0.055	19	2.923	0	0.000
48	Leopold, L.F., Leopold, N., Diehl, H.A., Socaci, C.	Prediction of Total Antioxidant Capacity of Fruit Juices Using FTIR Spectroscopy and PLS Regression	Food Analytical Methods	2012	5	405	407	4	4.000	0.350	0.088	2	0.500	0	0.000
47	Muntean, C.M., Bratu, I., Leopold, N.	Molecular relaxation processes in genomic DNA from leaf tissues: A surface-enhanced Raman spectroscopic study	Spectroscopy	2011	26	245	254	3	3.000	0.244	0.081	2	0.667	0	0.000
46	Mircescu, N.E., Varvescu, A., Herman, K., Chiș, V., Leopold, N.	Surface-enhanced Raman and DFT study on zidovudine	Spectroscopy	2011	26	311	315	5	5.000	0.244	0.049	4	0.800	0	0.000
45	Muntean, C.M., Leopold, N., Halmagyi, A., Valimareanu, S.	Surface-enhanced Raman spectroscopy of genomic DNA from in vitro grown plant species	Journal of Raman Spectroscopy	2011	42	1925	1931	4	4.000	0.621	0.155	14	3.500	0	0.000
44	Muntean, C.M., Bratu, I., Leopold, N., Purcaru, M.A.P.	Subpicosecond dynamics in DNA from leaves of in vitro-grown apple plants: A SERS study	Spectroscopy	2011	26	59	68	4	4.000	0.244	0.061	4	1.000	0	0.000
43	Leopold, L.F., Leopold, N., Diehl, H.-A., Socaci, C.	Quantification of carbohydrates in fruit juices using FTIR spectroscopy and multivariate analysis	Spectroscopy	2011	26	93	104	4	4.000	0.244	0.061	23	5.750	0	0.000
42	Mureșan-Pop, M., Kacsó, I., Filip, X., Vanea, E., Borodi, G., Leopold, N., Bratu, I., Simon, S.	Spectroscopic and physical-chemical characterization of ambazone-glutamate salt	Spectroscopy	2011	26	115	128	8	6.500	0.244	0.038	6	0.923	0	0.000
41	Ștefan, R., Bratu, I., Borodi, G., Leopold, N., Simon, V.	Structural investigations of AG2O-B2O3-CAO-P2O5 glass and glass-ceramic system	Studia Universitatis Babeș-Bolyai Chemia	2011		177	188	5	5.000	0.015	0.003	0	0.000	0	0.000
40	Szabó, L., Herman, K., Leopold, N., Buzumurgă, C., Chiș, V.	Surface-enhanced Raman scattering and DFT investigation of Eriochrome Black T metal chelating compound	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2011	79	226	231	5	5.000	0.356	0.071	6	1.200	0	0.000

39	Szabó, L., Leopold, L.F., Cozar, B.I., Leopold, N., Herman, K., Chiș, V.	SERS approach for Zn(II) detection in contaminated soil	Central European Journal of Chemistry	2011	9	410	414	6	5.500	0.258	0.047	4	0.727	0	0.000
38	Bebu, A., Szabó, L., Leopold, N., Berindean, C., David, L.	IR, Raman, SERS and DFT study of amoxicillin	Journal of Molecular Structure	2011	993	52	56	5	5.000	0.321	0.064	14	2.800	0	0.000
37	Cozar, I.B., Szabó, L., Mare, D., Leopold, N., David, L., Chiș, V.	IR, Raman, SERS and DFT study of paroxetine	Journal of Molecular Structure	2011	993	243	248	6	5.500	0.321	0.058	8	1.455	0	0.000
36	Cozar, I.B., Szabó, L., Leopold, N., Chi, V., Cozar, O., David, L.	IR, Raman, SERS and DFT study of pindolol and verapamil	Journal of Molecular Structure	2011	993	308	315	6	5.500	0.321	0.058	3	0.545	0	0.000
35	Cozar, O., Szabó, L., Cozar, I.B., Leopold, N., David, L., Cinap, C., Chiș, V.	Spectroscopic and DFT study of atenolol and metoprolol and their copper complexes	Journal of Molecular Structure	2011	993	357	366	7	6.000	0.321	0.054	8	1.333	0	0.000
34	Herman, K., Szabó, L., Leopold, L.F., Chiș, V., Leopold, N.	In situ laser-induced photochemical silver substrate synthesis and sequential SERS detection in a flow cell	Analytical and Bioanalytical Chemistry	2011	400	815	820	5	5.000	0.972	0.194	16	3.200	1	0.972
33	Muntean, C.M., Leopold, N., Halmagyi, A., Valimareanu, S.	Surface-enhanced Raman spectroscopy of DNA from leaves of in vitro grown apple plants	Journal of Raman Spectroscopy	2011	42	844	850	4	4.000	0.621	0.155	17	4.250	0	0.000
32	Muntean, C.M., Leopold, N., Halmagyi, A., Valimareanu, S.	Ultrasensitive detection of genomic DNA from apple leaf tissues, using surface-enhanced Raman scattering	Spectroscopy	2011	25	33	43	4	4.000	0.244	0.061	5	1.250	0	0.000
31	Cozar, I.B., Szabó, L., Leopold, N., Chiș, V., David, L.	Raman, sers and dft study of atenolol and metoprolol cardiovascular drugs	Romanian Reports of Physics	2010	55	772	781	5	5.000	0.200	0.040	5	1.000	0	0.000
30	Leopold, N., Lendl, B.	On-column silver substrate synthesis and surface-enhanced Raman detection in capillary electrophoresis	Analytical and Bioanalytical Chemistry	2010	396	2341	2348	2	2.000	0.968	0.484	19	9.500	1	0.968
29	Leopold, N., Cîntă-Pînzaru, S., Szabó, L., Ileașan, D., Chiș, V., Cozar,	Raman and SERS study of metoclopramide at different pH values	Journal of Raman Spectroscopy	2010	41	248	255	7	6.000	0.641	0.107	7	1.167	1	0.641

28	Steinhauser, G., Giester, G., Leopold, N., Wagner, C., Villa, M., Musilek, A.	Nitrogen-rich compounds of the lanthanoids: Highlights and summary	Helvetica Chimica Acta	2010	93	183	202	6	5.500	0.334	0.061	16	2.909	0	0.000
27	Steinhauser, G., Giester, G., Leopold, N., Wagner, C., Villa, M.	Nitrogen-rich compounds of the lanthanoids: The 5,5'-azobis[1H-tetrazol-1-ides] of the light rare earths (Ce, Pr, Nd, Sm, Eu, Gd)	Helvetica Chimica Acta	2009	92	2038	2051	5	5.000	0.386	0.077	13	2.600	0	0.000
26	Steinhauser, G., Giester, G., Wagner, C., Leopold, N., Sterba, J.H., Lendl, B., Bichler, M.	Nitrogen-rich compounds of the lanthanoids: The 5,5'-azobis[1H-tetrazol-1-ides] of some yttric earths (Tb, Dy, Ho, Er, Tm, Yb, and Lu)	Helvetica Chimica Acta	2009	92	1371	1384	7	6.000	0.386	0.064	16	2.667	0	0.000
25	Leopold, N., Busche, S., Gauglitz, G., Lendl, B.	IR absorption and reflectometric interference spectroscopy (RIFS) combined to a new sensing approach for gas analytes absorbed into thin polymer films	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2009	72	994	999	4	4.000	0.38	0.095	14	3.500	1	0.380
24	Chiș, V., Mile, G., Știufiuc, R., Leopold, N., Oltean, M.	Vibrational and electronic structure of PTCDI and melamine-PTCDI complexes	Journal of Molecular Structure	2009	924-926	47	53	5	5.000	0.369	0.074	16	3.200	0	0.000
23	Szabó, L., Chiș, V., Pîrnău, A., Leopold, N., Cozar, O., Orosz, Sz.	Spectroscopic and theoretical study of amlodipine besylate	Journal of Molecular Structure	2009	924-926	385	392	6	5.500	0.688	0.125	15	2.727	0	0.000
22	Leopold, N., Szabó, L., Pîrnău, A., Aluaș, M., Leopold, L.F., Chiș, V., Cozar, O.	Raman spectroscopic and DFT theoretical study of 4-(2-pyridylazo)resorcinol and its complexes with zinc(II) and copper(II)	Journal of Molecular Structure	2009	919	94	99	7	6.000	0.369	0.062	15	2.500	1	0.369
21	Chiș, V., Venter, M.M., Leopold, N., Cozar, O.	Raman, surface-enhanced Raman scattering and DFT study of para-nitro-aniline	Vibrational Spectroscopy	2008	48	210	214	4	4.000	0.588	0.147	28	7.000	0	0.000
20	Szabó, L., Chiș, V., Pîrnău, A., Leopold, N., Cozar, O., Orosz, Sz.	Spectroscopic and theoretical studies of dofetilide	Vibrational Spectroscopy	2008	48	297	301	6	5.500	0.588	0.107	9	1.636	0	0.000
19	Pîrnău, A., Chiș, V., Oniga, O., Leopold, N., Szabo, L., Baias, M., Cozar, O.	Vibrational and DFT study of 5-(3-pyridyl-methylidene)-thiazolidine-2-thione-4-one	Vibrational Spectroscopy	2008	48	289	296	7	6.000	0.588	0.098	23	3.833	0	0.000

18	Leopold, N., Chiș, V., Cozar, I.B., Szabó, L., Pîrnău, A., Cozar, O.	Raman SERS and DFT investigations of two metalchelating compounds	Optoelectronics and Advanced Materials, Rapid Communications	2008	2	278	283	6	5.500	0.028	0.005	2	0.364	1	0.028
17	Cozar, O., Leopold, N., Tomoaia-Cotișel, M., Mocanu, A., Jelic, C.	IR, NMR and EPR investigation of iron recognizing molecule - Desferrioxamine B	Journal of Optoelectronics and Advanced Materials	2007	9	3912	3916	5	5.000	0.14	0.028	2	0.400	0	0.000
16	Wöllner, K., Vollprecht, M., Leopold, N., Kasper, M., Busche, S., Gauglitz, G.	Interaction behaviour of a PDMS-calixarene system and polar analytes characterised by microcalorimetry and spectroscopic methods	Analytical and Bioanalytical Chemistry	2007	389	1879	1887	6	5.500	0.786	0.143	2	0.364	0	0.000
15	Peica, N., Lehene, C., Leopold, N., Cozar, O., Kiefer, W.	Raman and surface-enhanced Raman studies of the food additive sodium benzoate	Journal of Optoelectronics and Advanced Materials	2007	9	2943	2948	5	5.000	0.139	0.028	8	1.600	0	0.000
14	Peica, N., Lehene, C., Leopold, N., Schlücker, S., Kiefer, W.	Monosodium glutamate in its anhydrous and monohydrate form: Differentiation by Raman spectroscopies and density functional calculations	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2007	66	604	615	7	6.000	0.385	0.064	12	2.000	0	0.000
13	Chiș, V., Venter, M.M., Lehene, C., Vasilescu, M., Leopold, N., Cozar, O.	Bis-aniline compounds as potential candidates for molecular electronics: Experimental and DFT investigation on 4,4'-diaminodiphenyloxide	Journal of Optoelectronics and Advanced Materials	2007	9	788	794	6	5.500	0.139	0.025	1	0.182	0	0.000
12	Tomoaia-Cotișel, M., Mocanu, A., Leopold, N., Vasilescu, M., Chiș, V., Cozar, O.	FT-Raman and NMR investigation of the protein extracted from barley aleurone cells	Journal of Optoelectronics and Advanced Materials	2007	9	637	640	6	5.500	0.139	0.025	9	1.636	0	0.000
11	Cozar, O., Leopold, N., Jelic, C., Chiș, V., David, L., Mocanu, A., Tomoaia-Cotișel, M.	IR, Raman and surface-enhanced Raman study of desferrioxamine B and its Fe(III) complex, ferrioxamine B	Journal of Molecular Structure	2006	788	1	6	7	6.000	0.389	0.065	27	4.500	0	0.000
10	Leopold, N., Cîntă-Pînzaru, S., Baia, M., Antonescu, E., Cozar, O., Kiefer, W., Popp, J.	Raman and surface-enhanced Raman study of thiamine at different pH values	Vibrational Spectroscopy	2005	39	169	176	7	6.000	0.525	0.088	31	5.167	1	0.525
9	Bătiu, C., Jelic, C., Leopold, N., Cozar, O., David, L.	Spectroscopic investigations of new Cu(II), Co(II), Ni(II) complexes with γ -L-glutamyl amide as ligand	Journal of Molecular Structure	2005	744-747	325	330	5	5.000	0.415	0.083	8	1.600	0	0.000

8	Leopold, N., Baena, J.R., Bolboacă, M., Cozar, O., Kiefer, W., Lendl, B.	Raman, IR, and surface-enhanced Raman spectroscopy of papaverine: An automated setup for in situ synthesis of the silver substrate and recording of the SER spectra	Vibrational Spectroscopy	2004	36	47	55	6	5.500	0.423	0.077	16	2.909	1	0.423
7	Pînzaru, S.C., Leopold, N., Pavel, I., Kiefer, W.	Raman, SERS and theoretical studies of papaverine hydrochloride and its neutral species	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2004	60	2021	2028	4	4.000	0.488	0.122	11	2.750	0	0.000
6	Cîntă Pînzaru, S., Pavel, I., Leopold, N., Kiefer, W.	Identification and characterization of pharmaceuticals using Raman	Journal of Raman Spectroscopy	2004	35	338	346	4	4.000	0.592	0.148	86	21.500	0	0.000
5	Leopold, N., Lendl, B.	A new method for fast preparation of highly surface-enhanced raman	Journal of Physical Chemistry B	2003	107	5723	5727	2	2.000	1.769	0.885	643	321.500	1	1.769
4	Leopold, N., Haberkorn, M., Laurell, T., Nilsson, J., Baena, J.R., Frank, J., Lendl, B.	On-line monitoring of airborne chemistry in levitated nanodroplets: In situ synthesis and application of SERS-active Ag-sols for trace analysis by FT-raman spectroscopy	Analytical Chemistry	2003	75	2166	2171	7	6.000	1.73	0.288	53	8.833	1	1.730
3	Cîntă Pînzaru, S., Leopold, N., Kiefer, W.	Vibrational spectroscopy of betulonic acid HIV inhibitor and of its birch bark natural source	Talanta	2002	57	625	631	3	3.000	0.709	0.236	21	7.000	0	0.000
2	Cavalu, S., Cînt-Pînzaru, S., Leopold, N., Kiefer, W.	Raman and surface enhanced raman spectroscopy of 2,2,5,5-tetramethyl-3-pyrrolin-1-yloxy-3-carboxamide labeled proteins: Bovine serum albumin and cytochrome C	Biopolymers - Biospectroscopy Section	2001	62	341	348	4	4.000	1.138	0.285	35	8.750	0	0.000
1	Cîntă-Pînzaru, S., Cavalu, S., Leopold, N., Petry, R., Kiefer, W.	Raman and surface-enhanced Raman spectroscopy of tempyo spin labelled ovalbumin	Journal of Molecular Structure	2001	565-566	225	229	5	5.000	0.353	0.071	10	2.000	0	0.000
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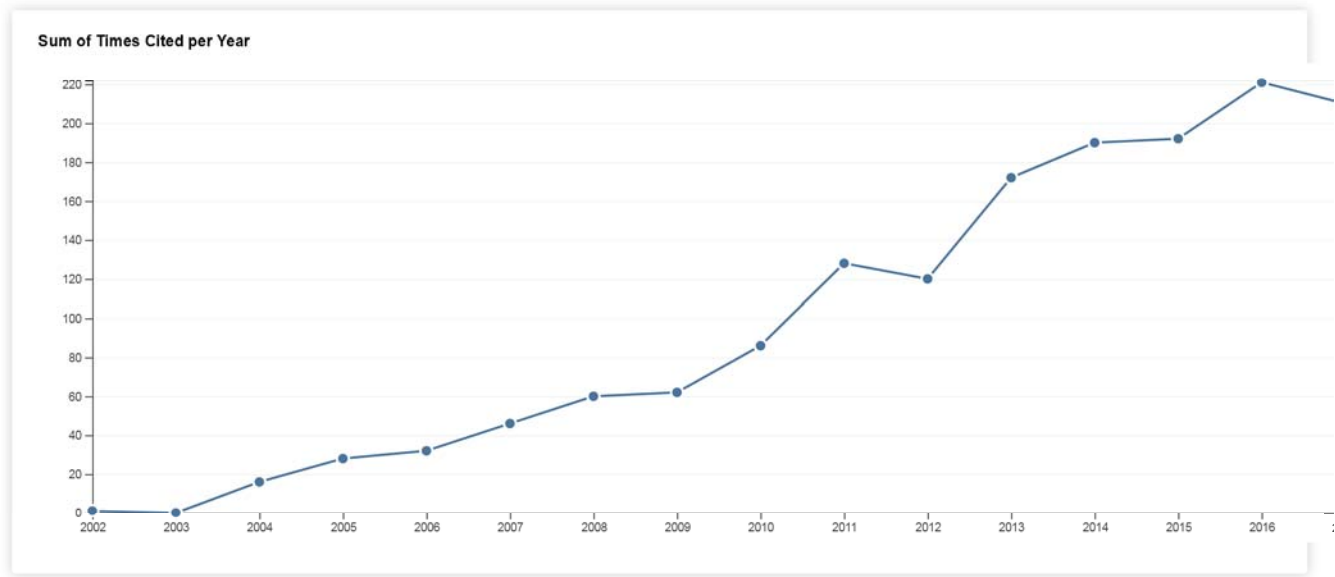
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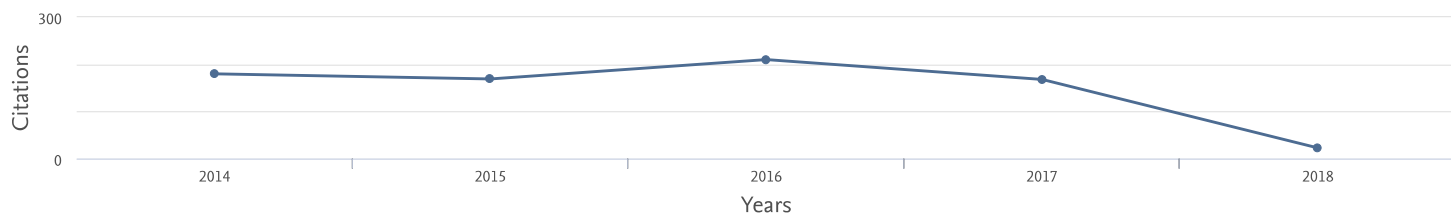
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By: Leopold, N; Lendl, B JOURNAL OF PHYSICAL CHEMISTRY B Volume: 107 Issue: 24 Pages: 5723-5727 Published: JUN 19 2003							
<input checked="" type="checkbox"/> 2. Identification and characterization of pharmaceuticals using Raman and surface-enhanced Raman scattering	7	6	7	7	2	86	5.73
By: Pinzaru, SC; Pavel, I; Leopold, N; et al. JOURNAL OF RAMAN SPECTROSCOPY Volume: 35 Issue: 5 Pages: 338-346 Published: MAY 2004							
<input checked="" type="checkbox"/> 3. FTIR, FT-Raman, SERS and DFT study on melamine	6	9	18	17	1	54	7.71
By: Mircescu, Nicoleta E.; Oltean, Mircea; Chis, Vasile; et al. VIBRATIONAL SPECTROSCOPY Volume: 62 Pages: 165-171 Published: SEP 2012							

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<input type="checkbox"/> 10 Quantification of carbohydrates in fruit juices using FTIR s...	2011	1	10	6	4	3		23		24
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