Anexa 1

Conf. Univ. Habil. Dr. Daniela SUSAN-RESIGA

INDICATORI PENTRU EVALUAREA PERFORMANŢEI ŞTIINŢIFICE ŞI ACADEMICE

Precizări:

- n_i^{ef} *reprezintă numărul efectiv de autori ai itemului i şi ia următoarele valori:*

$$n_i^{ef} = \begin{cases} n_i, & n_i \le 5 \\ (n_i + 5)/2, & n_i \in [5,15] \\ (n_i + 15)/3, & n_i \in [15,75] \\ (n_i + 45)/4, & n_i \ge 75 \end{cases}$$

unde n_i *reprezintă numărul de autori ai articolului i. În cazul publicațiilor HEPP (High Energy Particle Physics) cu număr mare de autori, dacă articolul are la bază o notă internă a experimentului la care candidatul este coautor, atunci* $\mathbf{n_i^{ef}}$ *poate fi dat de numărul de autori din nota internă.*

- *Lucrările de tip "**Article. Proceedings paper**" pot fi considerate la activitatea de cercetare sau la cea didactică și profesională, o singură dată, la alegerea candidatului.*

1. Activitatea didactică și profesională

A1 - Cărți în edituri internaționale recunoscute *Web of Science* **în calitate de autor**

Nr. crt.	**Titlul**	Autori	Editura, an, link (dacă este cazul)	Punctaj $4/n_i^{ef}$
Punctaj total indicator **A_1**				**Xxx**

Editurile recunoscute Web of Science se găsesc pe site-ul Web of Science – Master Book List-Publishers (http://wokinfo.com/mbl/publishers/)

Se acordă $4/n_i^{ef}$ *puncte pentru fiecare carte .*

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii.

A2 - Capitole de cărți în edituri internaționale recunoscute *Web of Science*, **în calitate de autor/ Review-uri în reviste cotate ISI**

Nr. crt.	**Titlul capitolului - titlul cărții / titlul Review-ului**	Autori	Editura, an / revista, an, pagini, link (dacă este cazul)	Punctaj $1/n_i^{ef}$
1.	*Experimental Investigations of a Magneto-Rheological Brake Embedded in a Swirl*	Szakal R-A., Bosioc A.I, Muntean S., **Susan-Resiga**	Springer, Cham, 2019, pp. 265-279 https://doi.org/10.100	1/5= **0.2**

	Generator Apparatus, capitol in Silva L. (eds) Materials Design and Applications II. Advanced Structured Materials, vol 98.	**D.**, Vékás L Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	978-3-030-02257-0_20– indexata BDI (Google Scholar), Print ISBN978-3-030-02256-3, Online ISBN978-3-030-02257-0.	
2.	*Magnetic Nanoparticle Systems for Nanomedicine — A Materials Science Perspective*, Magnetochemistry 2020, **6** (1): 2. Factor de impact: 1.794. doi:10.3390/magnetochemistry6010002. Review.- zona galbenă.	Socoliuc V., Peddis D., Petrenko V.I., Avdeev M.V., **Susan-Resiga D**., Szabó T., Turcu R., Tombácz E. and Vékás L. Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	Magnetochemistry 2020, **6** (1),:2; eISSN: 2312-7481, doi:10.3390/magnetochemistry6010002 Editorial Office MDPI, St. Alban-Anlage 66, 4052 Basel, Switzerland	1/7 = **0.1428**
Punctaj total indicator **A_2**				**0.3428**

Editurile recunoscute Web of Science se găsesc pe site-ul Web of Science – Master Book List-Publishers (http://wokinfo.com/mbl/publishers/)

Se acordă $1/n_i^{ef}$ *puncte pentru fiecare item.*

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii / revistei.

A3 - Cărţi în edituri internaţionale recunoscute *Web of Science* **în calitate de editor**

Nr. crt.	**Titlul**	Editori	Editura, an, link (dacă este cazul)	Punctaj $0.5/n_i^{ef}$
Punctaj total indicator **A_3**				**xxx**

Editurile recunoscute Web of Science se găsesc pe site-ul Web of Science – Master Book List-Publishers (http://wokinfo.com/mbl/publishers/)

Se acordă $0.5/n_i^{ef}$ *puncte pentru fiecare item.*

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii .

A4 - Cărţi, manuale, îndrumătoare de laborator în edituri naţionale sau alte edituri internaţionale ca autor, note interne,prezentari sustinute pentru aprobarea analizelor de date in cadrul colaborarilor mari

Nr. crt.	**Titlul**	Autori	Editura, an, link (dacă este cazul)	Punctaj $0.5/n_i^{ef}$
1.	*Comportarea reologica a fluidelor magnetizabile*, 184 pagini	**Daniela Resiga**, L. Vékás, Doina Bica, A. Chiriac,	Ed. Orizonturi Universitare, Timişoara, 2002, ISBN 973-8391-00-8	0.5/4 = 0.1250
2.	*Introducere in fizica lichidelor*, 151 pagini	**Daniela Susan-Resiga**, Adrian Chiriac	Ed. Orizonturi Universitare, Timişoara, 200	05/2 = 0.2500

			ISBN 973-638-099-8	
3.	*Fizică moleculară şi căldură, Lucrări de laborator*, 140 pagini	**Daniela Susan–Resiga,** Adriana Isvoran, Mădălin Bunoiu	Editura Universităţii de Vest, Timişoara, 2010, ISBN 978-973-125-320-6	0.5/3 = 0.1666
4.	*Mecanica, oscilatii si unde elastice*, 192 pagini	**Daniela Susan–Resiga,** Liliana Lighezan, Paul Barvinschi	Editura Universităţii de Vest, Timişoara, 2014, ISBN 978-973-125-427-2	0.5/3 = 0.1666
Punctaj total indicator **A_4**				**0.7082**

Se acordă $0.5/n_i^{ef}$ *puncte pentru fiecare item.*

A5 - Capitole de cărţi în edituri naţionale sau alte edituri internaţionale ca autor

Nr. crt.	**Titlul capitolului - titlul cărţii**	Autori	Editura, an, link (dacă este cazul)	Punctaj $0.2/n_i^{ef}$
1.	*Magnetic Fluids – a special category of nanomaterials. Preparation and complex characterization methods*, capitol în cartea **Micro and nanostructures**, pg. 127-157.	L. Vékás, D. Bica, M. Rasa, O. Balau, I. Potencz, **D. Gheorghe (**actual **Susan-Resiga)**	Ed. Academiei Romane, Bucuresti, 2001.	0.2/5.5 = 0.0363
2.	*Metode fizice de analiză folosite în artă şi arheologie*, capitol în **ArheoVest**, Nr. I: In Memoriam Liviu Măruia, Interdisciplinaritate în Arheologie şi Istorie, Timişoara, 7 decembrie 2013, Vol. II, pag. 681-702.	P. Barvinschi, **D. Resiga**	Editori: Andrei Stavilă, Dorel Micle, Adrian Cîntar, Cristian Floca, Sorin Forţiu, Editura: JATEPress Kiadó, Szeged, 2013, ISBN 978-963-315-152-5 (Kösszes/general), ISBN 978-963-315-154-9 (Vol. II). http://arheovest.com/simpozion/arheovest1/41_681_702.pdf	0.2/2 = 0.1
Punctaj total indicator **A_5**				**0.1363**

Se acordă $0.2/n_i^{ef}$ *puncte pentru fiecare item.*

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii .

A6 - Lucrări în extenso (cel puţin 3 pagini) publicate în Proceedings-uri indexate ISI

Nr. crt.	**Titlul**	Autori	Revista, editura, an, link (dacă este cazul)	Punctaj $0.2/n_i^{ef}$

[redacted]

1.	*Concentration and composition dependence of rheological and magnetorheological properties of some magnetic fluids*	L. Vekas, D. Bica, I. Potencz, **D. Gheorghe (**actual **Susan-Resiga),** O. Balau, M. Rasa, Afiliere: Academia Română, Filiala Timişoara	Adsorption and Nanostructures, Book Series: Progress in Colloid and Polymer Science, **117**, 2002, pg. 104-109. https://link.springer.com/chapter/10.1007/3-540-45405-5_19	0.2/5.5 = 0.0363
2.	*Strongly polar magnetic fluids with Fe_3O_4 and $CoFe_2O_4$ nanoparticles*	Doina Bica, Oana Marinică, Floriana D. Stoian, **Daniela Susan – Resiga**, L. Vékás Afiliere: Romanian Academy – Timisoara Branch	Proceedings of the International Semiconductor Conference, CAS 2002, 25th Edition, October 8-12, 2002, Sinaia, **1**, 2002, pg.143 – 146. ISBN: 0-7803-7440-1. doi: 10.1109/SMICND.2002.1105820	0.2/5 = 0.0400
3.	*Magnetizable colloids on strongly polar carriers – preparation and manifold characterization*	Doina Bica, L. Vékás, M. V. Avdeev, Maria Bălăşoiu, Oana Marinică, Floriana D. Stoian, **Daniela Susan–Resiga,** Gy. Török, L. Rosta Afiliere: National Center for Engineering of Systems with Complex Fluids - University Po1itehnica Timisoara	Progress in Colloid Polymer Science, **125**, 2004, pg. 1-9. ISSN: 0340-255X	0.2/7 = 0.0285
4.	*Characteristic Properties of a Magnetic Nanofluid Used as Cooling and Insulating Medium in a Power Transformer*	Floriana D. Stoian, Sorin Holotescu, Alina Taculescu, Oana Marinica, **Daniela Resiga**, Milan Timko, Peter Kopcansky, Michal Rajnak Afiliere: Romanian Academy – Timisoara Branch	Advanced Topics in Electrical Engineering (ATEE), 8th International Symposium, Editura Printech, Bucuresti, ISSN 2068-7966, ISBN 978-1-4673, 2013, pg. 39-42, doi: 10.1109/ATEE.2013.6563463	0.2/6.5 = 0.0307
5.	*Drug targeting investigation in the critical region of the arterial bypass graft* (Conference: 12th International Conference on the Scientific and Clinical Applications of Magnetic Carriers (MagMeet) Location: Copenhagen, DENMARK Date: MAY 22-26, 2018). Zona: galbrenă	Bernad, S.I., **Susan-Resiga, D**., Vekas, L., Bernad, E.S. Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	Journal of Magnetism and Magnetic Materials, **475**, 2019, pg. 14-23. Factor de impact: 2.717. ISSN: 0304-8853, 1873-4766, Doi: 10.1016/j.jmmm.2018.11.108	0.2/4 = 0.05

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6.	*Concentrated Magnetic Nanofluids for Use as Liquid Core: Magnetic and Transport Properties* (12th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, ROMANIA, MAR 25-27, 2021)	Stoian, FD, Holotescu, S, **Susan-Resiga, D,** Marinica, O Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	Book Series: International Symposium on Advanced Topics in Electrical Engineering, 2021, ISSN: 1843-8571, DOI: 10.1109/ATEE52255.2021.9425139	0.2/4 = 0.05
Punctaj total indicator **A_6**				**0.2355**

Se acordă $0.2/n_i^{ef}$ *puncte pentru fiecare item.*

Documente justificative: Copie în format hard, în format electronic sau link pe pagina web a editurii .

A7 - Brevete de invenție internaționale acordate

Nr. crt.	**Titlul**	Autori	Autoritatea care a acordat brevetul link (dacă este cazul)	Punctaj $3/n_i^{ef}$
Punctaj total indicator **A_7**				**xxx**

Se acordă $3/n_i^{ef}$ *puncte pentru fiecare item.*

Documente justificative: Copie în format hard, în format electronic sau link pe pagina autorității care a acordat brevetul .

A8 - Brevete de invenție naționale acordate

Nr. crt.	**Titlul**	Autori	Autoritatea care a acordat brevetul link (dacă este cazul)	Punctaj $0.5/n_i^{ef}$
Punctaj total indicator **A_8**				**xxx**

Se acordă $0.5/n_i^{ef}$ *puncte pentru fiecare item.*

Documente justificative: Copie în format hard, în format electronic sau link pe pagina autorității care a acordat brevetul .

A9 - Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud)

Nr. crt.	**Titlul proiectului sau programului**	Calitatea (director sau responsabil)	Autoritatea contractantă, instituția, link (după cum este cazul)	Punctaj

1.	Coordonator program de studii – licenta FIZICA, perioada 2015-2019, Acreditare 2015.	Director	UVT	0.5
2.	Coordonator program de studii – licenta FIZICA INFORMATICA, perioada 2019-prezent. Acreditare + dosar RNCIS în 2023.	Director	UVT	0.5
Punctaj total indicator **A_9**				**1.0**

Se acordă 0.5 *puncte pentru fiecare item.*
Documente justificative: Copie în format hard sau în format electronic a documentelor de contractare sau link pe pagina autorității contractante sau a instituției unde s-a desfășurat programul.

A10 – Director /responsabil pentru proiecte de cercetare câștigate prin competiție națională sau internațională; proiectele de la punctul A_9 se exclud).

Nr. crt.	**Titlul proiectului**	Calitatea (director sau responsabil)	Autoritatea contractantă, link (dacă este cazul)	Punctaj $V/100.000$
1.	Grant CEEX nr.64/2006: Integrarea Tehnologiilor Magneto-Reologice Speciale şi a Controlului Avansat al Curgerii în Aplicaţii Industriale" (iSmart-flow) Valoare totala: 1.560.000 lei Valoare partener UVT: 55.000 lei = 15605.05 euro (curs mediu bnr 2006 = 3.5245)	Responsabil partener UVT		0.1560
Punctaj total indicator **A_{10}**				**0.1560**

Se acordă $V/100.000$ *puncte pentru fiecare item, unde V este valoarea contractului în euro. Sumele în lei sau în alte valute se convertesc în euro la cursul mediu din anul respectiv conform www.bnr.ro pentru perioada de după 1999 și la cursul din 1999 pentru perioada anterioară. Responsabilii de proiect sunt cei care conduc o echipă de cercetare, fiind menționați ca atare în proiectul depus; în cazul lor se consideră doar suma aferentă echipei conduse.*
Documente justificative: Copie în format hard sau în format electronic dupa devizul postcalcul.

Punctaj total obținut pentru activitatea didactică și profesională: $A = \sum_{i=1}^{10} A_i$ = **2.5788**

Valoarea minimă pentru Abilitare, CS I, Profesor universitar: $\mathbf{A} \geq \mathbf{2}$

2. Activitatea de cercetare

2.1 – Articole științifice originale, în extenso, ca autor

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Nr. crt.	**Referinţa bibliografică** (Autori, Titlul, Revista, Vol., anul, pag. început. – pag.sf.	Precizati zona in care se incadreaza articolul (rosie, galbena sau alba)*	a_i	n_i	n_i^{ef}	a_i / n_i^{ef}
1.	L. Vékás, Doina Bica, **Daniela Gheorghe (actual Susan-Resiga)**, I. Potencz, M. Rașa, *Concentration and Composition Dependence of the Rheological Behaviour of Some Magnetic Fluids* - Journal of Magnetism and Magnetic Materials, **201**, 1999, pg. 159-162. Factor de impact: 1.212, doi: 10.1016/S0304-8853(99)00147-X, ISSN: 0304-8853, 1873-4766 Afiliere: Politehnica University of Timissoara, Institute for Complex Fluids		0.6	5	5	0.1200
2.	Oana Bălău, Doina Bica, M. Koneracka, P. Kopcansky, **Daniela Susan–Resiga**, L. Vékás, *Rheological and magnetorheological behaviour of some magnetic fluids on polar and nonpolar carrier liquids,* International Journal of Modern Physics B, **16** (17-18), 2002, pg. 2765-2771. Factor de impact: 0.604, doi: 10.1142/S0217979202012967, ISSN: 0217-9792 Afiliere: West University of Timisoara, Fac. of Physics		0.3	6	5.5	0.0545
3.	G. Bandur, **Daniela Resiga**, V. Pode, *Aspects of the rheologic behaviour of the o-sec-butyl-phenoxyacetic acid esters* – Materiale plastice, **42** (3), 2005, pg. 220-225. Factor de impact: 0.300. ISSN: 0025-5289. https://www.researchgate.net/publication/290514375_aspects_of_the_rheologic_behaviour_of_the_o-sec-butyl-phenoxyacetic_acid_esters Afiliere: West University of Timisoara		0.03	3	3	0.0100
4.	Liliana Lighezan, Carmen Stelian, **Daniela Susan-Resiga**, Irina Nicoară, *Fidap Simulation of the F Color Centers Formation in Alkali Halides Crystals using Additive Method of Crystals Coloring*, Journal of Optoelectronics and Advanced Materials, **8** (2), 2006, pg. 749-753. Factor de impact: 1. ISSN: 1454-4164. https://www.researchgate.net/publication/267726545_fidap_simulation_of_the_f_color_centers_formation_in_alkali_halides_crystals_using_additive_method_of_crystals_coloring Afiliere: West University of Timisoara, Fac. of Physics		0.13	4	4	0.0325
5.	D. Hădărugă, Nicoleta Hădărugă, **Daniela Resiga,** V. Pode, Delia Dumbravă, A. Lupea, *Obtaining and Characterization of Sage (Salvia Sclarea L.) Essential Oil / β-Cyclodextrin Supramolecular System,* Rev. Chim., **58** (6), 2007, pg. 566-573.		0.01	6	5.5	0.0018

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	Factor de impact: 0.287. ISSN: 0034-7752. https://www.researchgate.net/publication/286973507_obtaining_and_characterization_of_sage_salvia_sclarea_l_essential_oil_b-cyclodextrin_supramolecular_system Afiliere: West University of Timisoara					
6.	Carmen Stelian, **Daniela Susan-Resiga**, Liliana Lighezan, Irina Nicoară, *Analysis of Transport Phenomena during Bridgman Growth of Calcium Fluoride Doped Crystals*, Crystal Growth & Design, **8** (2), pg. 402-406, 2008. Factor de impact: 4.215. ISSN: 0022-0248. doi:10.1021/cg070125g Afiliere: West University of Timisoara		1.055	4	4	0.2637
7.	**Daniela Susan-Resiga** , *A Rheological Model for Magneto-rheological Fluids*, Journal of Intelligent Material Systems and Structures, **20** (8), 2009, pg. 1001-1010. Factor de impact: 1.177. ISSN: 1045389X, 1530-8138. doi:10.1177/1045389X08100979 Afiliere: West University ofTimisoara		0.597	1	1	0.5970
8.	L. Mirci, **Daniela Resiga**, V. Pode, *New unsymmetrical complex diesters of adipic acid considered as tribological fluids*, Lubrication Science, **22** (8), 2010, pp.341-354. Factor de impact: 0.53. ISSN 0954-0075. doi: 10.1002/ls.122 Afiliere: West University of Timisoara		0.317	3	3	0.1056
9.	**Daniela Susan-Resiga,** L. Vékás, Doina Bica, *Flow behaviour of extremely bidisperse magnetizable fluids*, Journal of Magnetism and Magnetic Materials, **322** (20), 2010, pg. 3166-3172. Factor de impact: 1.690. ISSN: 0304-8853. doi: 10.1016/j.jmmm.2010.05.055 Afiliere: West University of Timisoara, Politehnica Timisoara - National Center for Engineering of Systems with Complex Fluids		0.511	3	3	0.1703
10.	**Daniela Susan-Resiga**, Vlad Socoliuc, Tibor Boros; Tunde Borbáth; Oana Marinica; Adelina Han, Ladislau Vékás, *The Influence of Particle Clustering on the Rheological Properties of Highly Concentrated Magnetic Nanofluids*, Journal of Colloid & Interface Science, **373** (1), 2012, pg. 110–115. ISSN: 0021-9797. Factor de impact: 3.172. doi: 10.1016/j.jcis.2011.10.060 Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	galbenă	0.872	7	6	0.1453
11.	**Daniela Susan-Resiga** and L.Vékás, *Yield stress and flow behavior of concentrated ferrofluid based magnetorheological fluids: the influence of composition*, Rheologica Acta, **53**, 2014, pg. 645-653. doi: 10.1007/s00397-014-0785-z. Factor de impact: 1.869. ISSN: 0035-4511, 1435-1528 Afiliere: West University of Timisoara, Romanian Academy –	roşie	0.703	2	2	0.3515

	Timisoara Branch					
12.	**Daniela Susan-Resiga**, *Application of the time-temperature superposition principle to concentrated magnetic nanofluids*, Romanian Reports in Physics, **67** (3), 2015, pg. 890-914. Factor de impact: 1.367. ISSN: 1221-1451, 1841-8759. http://www.rrp.infim.ro/2015_67_3/A13.pdf Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	galbenă	0.184	1	1	0.1840
13.	Mircea Stefanescu, Simona Sorescu, **Daniela Susan-Resiga**, Oana Stefanescu, Gabriela Vlase, *Obtaining of NiO/SiO2 by thermal decomposition of Ni(II) carboxylates formed within hybrid silica gels*, acceptata spre publicare in Journal of Thermal Analysis and Calorimetry, **121** (1), 2015, pg. 135-144. Factor de impact: 1.781. ISSN: 1388-6150, 1588-2926. doi: 10.1007/s10973-015-4485-4 Afiliere: West University of Timisoara	galbenă	0.247	5	5	0.0492
14.	O. Marinică, **Daniela Susan-Resiga**, F. Bălănean, D. Vizman, V. Socoliuc, L. Vékás, *Nano-microcomposite magnetic fluids: Magnetic and magnetorheologica levaluation for rotating seal and vibration damper applications*, Journal of Magnetism and Magnetic Materials, **406**, 2016, pg. 134–143. Factor de impact: 2.630, ISSN: 0304-8853, 1873-4766. doi: 10.1016/j.jmmm.2015.12.095 Afiliere: West University of Timisoara	galbenă	0.456	6	5.5	0.0829
15.	**Daniela Susan-Resiga,** L. Vékás, *Ferrofluid-based magnetorheological fluids: tuning the properties by varying the composition at two hierarchical levels*, Rheol. Acta, **55** (7), 2016, pg. 581-595. Factor de impact: 1.767. ISSN: 0035-4511, 1435-1528. doi: 10.1007/s00397-016-0931-x Afiliere: West University of Timisoara, Politehnica Timisoara - Research Center for Engineering of Systems with Complex Fluids	galbenă	0.630	2	2	0.3150
16.	**Daniela Susan-Resiga,** L. Vékás, *Ferrofluid based composite fluids: Magnetorheological properties correlated by Mason and Casson numbers*, Journal of Rheology, **61**(3), 2017, pg. 401-408. Factor de impact: 2.969. ISSN: 0148-6055. doi: 10.1122/1.4977713 Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	roşie	1.129	2	2	0.5645
17.	**Daniela Susan-Resiga,** L. Vékás, *From high magnetization ferrofluids to nano-micro composite magnetorheological fluids: properties and applications*, Romanian Reports in Physics **70**, Article No. 501 (2018). Factor de impact: 1.582. ISSN: 1221-1451, 1841-8759.	albă	0.296	2	2	0.1480

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	http://www.rrp.infim.ro/IP/2018/AN501.pdf Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch					
18.	**Daniela Susan-Resiga** and P. Barvinschi, *Correlation of rheological properties of ferrofluid-based magnetorheological fluids using the concentration-magnetization superposition*, Journal of Rheology **62** (3), 2018, pg. 739-752. Factor de impact: 2.969. ISSN: 0148-6055. doi: 10.1122/1.5017674 Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	roşie	1.108	2	2	0.5540
19.	Corina Vasilescu, M. Latikka, K. D. Knudsen, V.M. Garamus, V. Socoliuc, Rodica Turcu, Etelka Tombácz, **Daniela Susan-Resiga**, R.H.A. Ras, L. Vékás, *High concentration aqueous magnetic fluids: structure, colloidal stability, magnetic and flow properties*, Soft Matter, **14**, 2018, pg. 6648-6666. Factor de impact: 3.709. ISSN: 1744-683X, 1744-6848. doi: 10.1039/c7sm02417g Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	roşie	1.012	10	7.5	0.1349
20.	L. Pîslaru-Dănescu, A.M. Morega, J.B. Dumitru, M. Morega, N.C. Popa, F.D. Stoian, **D. Susan-Resiga**, S. Holotescu, M. Popa, *Miniature Planar Spiral Transformer With Hybrid, Ferrite, and Magnetic Nanofluid Core*, IEEE TRANSACTIONS ON MAGNETICS, **54** (10), 2018, Article No. 4600614. Factor de impact: 1.467. ISSN: 0018-9464, 1941-0069. doi: 10.1109/TMAG.2018.2864162 Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	albă	0.362	9	7	0.0517
21.	Bernad, S.I., **Susan-Resiga, D**., Bernad, E.S., *Hemodynamic Effects on Particle Targeting in the Arterial Bifurcation for Different Magnet Positions*, Molecules (Basel, Switzerland), **24** (13), 2019. ISSN:1420-3049, Factor de impact: 3.267. doi: 10.3390/molecules24132509 Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	galbenă	0.601	3	3	0.2003
22.	**Susan-Resiga, D**., Socoliuc, V-M., Bunge, A., Turcu, R.P., Vekas, L., *From high colloidal stability ferrofluids to magnetorheological fluids: tuning the flow behavior by magnetite nanoclusters*, Smart Materials and Structures, SMS-108546, **28** (11), 2019, ISSN: 0964-1726, eISSN: 1361-665X, Factor de impact: 3.613, doi: 10.1088/1361-665X/ab3ba5. Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	roşie	0.809	5	5	0.1618

23.	**Susan-Resiga D.**, Mălăescu I., Marinică O., Marin C.N., *Magnetorheological properties of a kerosene-based ferrofluid with magnetite particles hydrophobized in the absence of the dispersion medium*, Physica B: Condensed Matter, **587**: 412150, 2020, Factor de impact: 2.436, ISSN: 0921-4526, eISSN: 1873-2135, doi: 10.1016/j.physb.2020.412150. Afiliere: West University of Timisoara, Politehnica Timisoara - Research Center for Engineering of Systems with Complex Fluids	albă	0.349	4	4	0.0872
24.	Craciunescu I; Chitanu E; Codescu MM; Iacob N; Kuncser A; Kuncser V; Socoliuc V; **Susan-Resiga D.**, Balanean F; Ispas G; Borbath T; Borbath I, Turcu R; Vekas L, *High performance magnetorheological fluids: very high magnetization FeCo-Fe3O4 nanoclusters in a ferrofluid carrier*, Soft Matter **18** (3), 626-639, 2022, Factor de impact: 4.046, ISSN: 1744-683X, eISSN: 1744-6848, doi: 10.1039/d1sm01468d. Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	roşie	0.837	14	9.5	0.0881
25.	Bernad S.I., Socoliuc V., **Susan-Resiga D.**, Craciunescu I., Turcu R., Tombácz E. , Vékás V. , Ioncica M.I., and Bernad E.S., *Magnetoresponsive Functionalized Nanocomposite Aggregation Kinetics and Chain Formation at the Targeted Site during Magnetic Targeting*, Pharmaceutics, **14**: 1923, 2022, Factor de impact: 5.875, doi: 10.3390/pharmaceutics14091923. Afiliere: West University of Timisoara, Romanian Academy – Timisoara Branch	roşie	0.754	9	7	0.1077
	Punctaj total indicator 2.1					**I = 4.5545**

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Precizări:

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- *n_i^{ef} reprezintă numărul efectiv de autori ai itemului i şi ia următoarele valori:*

$$n_i^{ef} = \begin{cases} n_i, & n_i \le 5 \\ (n_i + 5)/2, & n_i \in [5,15] \\ (n_i + 15)/3, & n_i \in [15,75] \\ (n_i + 45)/4, & n_i \ge 75 \end{cases}$$

[redacted]

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2.2 –Articole științifice originale în extenso ca prim autor sau autor corespondent, conform mențiunilor de pe articol.

Nr.	**Referința bibliografică** (Autori, Titlul, Revista, Vol., anul, pag.$_{\text{inceput}}$-pag.$_{\text{sfârșit}}$)	Precizati zona in care se incadreaza articolul (rosie, galbena sau alba)	a_i
1.	**Daniela Susan-Resiga** , *A Rheological Model for Magneto-rheological Fluids*, Journal of Intelligent Material Systems and Structures, **20** (8), 2009, pg. 1001-1010. Factor de impact: 1.177. ISSN: 1045389X, 1530-8138. doi:10.1177/1045389X08100979		0.597
2.	**Daniela Susan-Resiga,** L. Vékás, Doina Bica, *Flow behaviour of extremely bidisperse magnetizable fluids*, Journal of Magnetism and Magnetic Materials, **322** (20), 2010, pg. 3166-3172. Factor de impact: 1.690. ISSN: 0304-8853. doi: 10.1016/j.jmmm.2010.05.055		0.511
3.	**Daniela Susan-Resiga**, Vlad Socoliuc, Tibor Boros; Tunde Borbáth; Oana Marinica; Adelina Han, Ladislau Vékás, *The Influence of Particle Clustering on the Rheological Properties of Highly Concentrated Magnetic Nanofluids*, Journal of Colloid & Interface Science, **373** (1), 2012, pg. 110–115. ISSN: 0021-9797. Factor de impact: 3.172. doi: 10.1016/j.jcis.2011.10.060	galbena	0.872
4.	**Daniela Susan-Resiga** and L.Vékás, *Yield stress and flow behavior of concentrated ferrofluid based magnetorheological fluids: the influence of composition*, Rheologica Acta, **53**, 2014, pg. 645-653. Factor de impact: 1.869. ISSN: 0035-4511, 1435-1528. doi: 10.1007/s00397-014-0785-z	rosie	0.703
5.	**Daniela Susan-Resiga**, *Application of the time-temperature superposition principle to concentrated magnetic nanofluids*, Romanian Reports in Physics, **67** (3), 2015, pg. 890-914. Factor de impact: 1.367. ISSN: 1221-1451, 1841-8759. http://www.rrp.infim.ro/2015_67_3/A13.pdf	galbena	0.184
6.	**Daniela Susan-Resiga,** L. Vékás, *Ferrofluid-based magnetorheological fluids: tuning the properties by varying the composition at two hierarchical levels*, Rheol. Acta, **55** (7), 2016, pg. 581-595. Factor de impact: 1.767. ISSN: 0035-4511, 1435-1528. doi: 10.1007/s00397-016-0931-x	galbena	0.630
7.	O. Marinică, **Daniela Susan-Resiga**, F. Bălănean, D. Vizman, V. Socoliuc, L. Vékás, *Nano-microcomposite magnetic fluids: Magnetic and magnetorheologica levaluation for rotating seal and vibration damper applications*, Journal of Magnetism and Magnetic Materials, **406**, 2016, pg. 134–143. Factor de impact: 2.630, ISSN: 0304-8853, 1873-4766. doi: 10.1016/j.jmmm.2015.12.095 - AUTOR CORESPONDENT	galbena	0.456
8.	**Daniela Susan-Resiga,** L. Vékás, *Ferrofluid based composite fluids: Magnetorheological properties correlated by Mason and Casson numbers*, Journal of Rheology, **61** (3), 2017, pg.	rosie	1.129

	401-408. Factor de impact: 2.969. ISSN: 0148-6055. doi: 10.1122/1.4977713		
9.	**Daniela Susan-Resiga,** L. Vékás, *From high magnetization ferrofluids to nano-micro composite magnetorheological fluids: properties and applications,* Romanian Reports in Physics **70**, Article No. 501 (2018). Factor de impact: 1.582. ISSN: 1221-1451, 1841-8759. http://www.rrp.infim.ro/IP/2018/AN501.pdf	alba	0.296
10.	**Susan-Resiga D.** and Barvinschi P., *Correlation of rheological properties of ferrofluid-based magnetorheological fluids using the concentration-magnetization superposition,* Journal of Rheology **62** (3), 2018, pg. 739-752. Factor de impact: 2.969. ISSN: 0148-6055. doi: 10.1122/1.5017674	rosie	1.108
11.	**Susan-Resiga, D**., Socoliuc, V-M., Bunge, A., Turcu, R.P., Vekas, L., *From high colloidal stability ferrofluids to magnetorheological fluids: tuning the flow behavior by magnetite nanoclusters*, Smart Materials and Structures, SMS-108546, **28** (11), 2019, ISSN: 0964-1726, eISSN: 1361-665X, Factor de impact: 3.613, doi: 10.1088/1361-665X/ab3ba5.	rosie	0.809
12.	**Susan-Resiga D.**, Mălăescu I., Marinică O., Marin C.N., *Magnetorheological properties of a kerosene-based ferrofluid with magnetite particles hydrophobized in the absence of the dispersion medium,* Physica B: Physics of Condensed Matter, **587**: 412150, 2020, Factor de impact: 2.436, ISSN: 0921-4526, eISSN: 1873-2135, doi: 10.1016/j.physb.2020.412150.	albă	0.281
Punctaj total indicator 2.2			**P = 7.576**

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Coeficienţi obţinuţi: **I = 4.5545**
P = 7.576
Valorile minime pentru Abilitare, CS I, Profesor universitar: $I \geq 4; P \geq 4$

3. Recunoașterea impactului activității

3.1. Citări în reviste științifice cu factor de impact care se regasesc in InCites Journal Citation Reports sau in carti in edituri recunoscute Web of Science. Nu se iau in considerare citarile provenind din articole care au ca autor sau coautor candidatul.

Nr.	Referinţa bibliografică a publicaţiei care citează (Autori, Titlul, Revista, Vol., anul,	c_i al	n_i^{ef}	Punctaj

publ. citata	pag.inceput -pag.sfârşit)	publ. citate	al publ. Citate	$\frac{c_i}{n_i^{ef}}$
	• L. Vékás, Doina Bica, **Daniela Gheorghe (actual Susan-Resiga)**, I. Potencz, M. Raşa, *Concentration and Composition Dependence of the Rheological Behaviour of Some Magnetic Fluids* - Journal of Magnetism and Magnetic Materials, **201**, 1999, pg. 159-162. Factor de impact: 1.212, doi: 10.1016/S0304-8853(99)00147-X, ISSN: 0304-8853, 1873-4766.	11	5	2.2000
	1. Vekas, L; Rasa, M; Bica, D, *Physical properties of magnetic fluids and nanoparticles from magnetic and magneto-rheological measurements*, Journal of Colloid and Interface Science, **231** (2), 2000, pg. 247-254 (doi: 10.1006/jcis.2000.7123).			
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	3. Rasa, M; Bica, D; Philipse, A; et al., *Dilution series approach for investigation of microstructural properties and particle interactions in high-quality magnetic fluids*, European Physical Journal E, vol. 7 (3), 2002, pg. 209-220 (doi: 10.1140/epje/i200101129).			
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	5. L Vekas, *Magnetic nanofluids properties and some applications*, Rom. Journ. Phys., Vol. 49, Nos. 9–10, Pg. 707–721, Bucharest, 2004.			
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	• Vekas L., Bica D., Potencz I., **Gheorghe D**. (**actual Susan-Resiga**), Balau O., Rasa M., *Concentration and composition dependence of rheological and magnetorheological properties of some magnetic fluids*, Progress in Colloid and Polymer Science, **117**, 2001, pg. 104-109.	25	5.5	4.5454
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707–721, Bucharest, 2004.

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	MACROMOLECULAR CHEMISTRY AND PHYSICS, Volume: 219, Issue: 5, Article Number: 1700408, 2018.			
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	Punctaj total:			**C = 161.19**

Precizări:

c_i *reprezintă numărul de citări pentru publicaţia " i ".*

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Valorile minime pentru Abilitare, CS I, Profesor universitar: C ≥40, h≥ 10

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

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T= 19.30

Valoarea minimă pentru Abilitare, CS I, Profesor universitar: T ≥12

Indicator	A	I	P	C	h	T
Valoare minima pentru CS I, profesor universitar	2	4	4	40	10	12
Valoare realizata	2.5788	4.5545	7.576	161.19	13	19.30
Gradul de îndeplinire	128.94%	113.86%	189.40%	402.97 %	130%	160.83%

Data: 21.05.2024

Semnătura,

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