





## ЛИЧНА ИНФОРМАЦИЯ

**Джовани Спинели**

-  София, България
-  (+359) 2 979 6476
-  [spinelligiovanni76@gmail.com](mailto:spinelligiovanni76@gmail.com)
-  <https://www.imbm.bas.bg/index.php/gspinelli>

Пол Мъж | Дата на раждане 31/03/1977, София | Националност Българин

## ТРУДОВ СТАЖ

- 12/06/2020 - До сега **Доцент**  
Лаборатория „ОЛЕМ“, Институт по Механика-БАН, ул. „Акад. Георги Бончев“, бл. 4
- 2023 - **Професор - лектор**  
“Giustino Fortunato” University of Benevento, Benevento, Italy
- 01/05/2012-12/06/2020 **Пост докторант**  
Университет в Салерно, Салерно, Италия  
Инженерен факултет, Департамент по електроника и информационно инженерство

## ОБРАЗОВАНИЕ И ОБУЧЕНИЕ

- 16/03/2020 **Призната в България научна степен ОНС „Доктор“, Професионално направление:;**  
5.6. Материали и материалознание
  - 20/04/2012 **Защита на дисертационен труд за ОНС „Доктор“ на тема “ Електромагнитно характеризирание и моделиране на композити на базата на въглеродни нанотръбички за индустриални приложения”**  
в Университет в Салерно, , Инженерен факултет, Салерно, Италия  
Научна специалност „Електроника и информационно инженерство“
  - 2007 **Магистър по “Електронно инженерство”** Университет в Салерно, Италия
- Над 20 участия с доклади и постерни съобщения на международни и национални конференции и семинари.

## ЛИЧНИ УМЕНИЯ И КОМПЕТЕНЦИИ

 Майчин език **Италиански**

Други езици

	РАЗБИРАНЕ		ГОВОРЕНЕ		ПИСАНЕ
	Слушане	Четене	Участие в разговор	Самостоятелно устно изложение	
Английски	C1	C2	C1	C1	C1
Френски	C1	C1	B2	B2	B1

Ниво: A1/A2: Основно ниво на владееене - B1/B2: Самостоятелно ниво на владееене - C1/C2 Свободно ниво на владееене  
[Обща европейска езикова рамка](#)

- Комуникационни умения и компетенции** Опит при работа с партньори от общи международни научни проекти. Участие с постерни съобщения и презентации на конференции в страната и чужбина.
- Организационни умения и компетенции** Опит при организиране на семинари по европейски проекти с участие на учени от различни държави.
- Професионални умения и компетенции** Електрични, термични и механични характеристики на иновативни материали, базирани на въглеродни наноструктури (както и тяхното многофизично и многомашабно моделиране), 3D-печат FDM, аналитични и числени методи за проектиране и оптимизация на материали, EM системи и процеси..

 Компютърни умения **Microsoft Office; OriginPro; Adobe Acrobat Professional; Viewer Software, Triboscan**

ДОПЪЛНИТЕЛНА  
ИНФОРМАЦИЯ**Scopus Author ID: 35767250600**  
**h-index 22 ; 1532 citations**[Spinelli, Giovanni - Author details - Scopus Preview](#)<https://www.scopus.com/authid/detail.uri?authorId=35767250600>

Публикации

**СПИСЪК НА РЕЛЕВАНТНИТЕ ПУБЛИКАЦИИ**

1. Lamberti P., De Vivo B., **Spinelli G.**, Tucci V., Guadagno L., Raimondo M., Vertuccio L. Analysis of the Effects of Hydrotalcite Inclusion on the Temperature-Sensing Properties of CNT-Epoxy Nanocomposites. *IEEE Sensors Journal*. Vol. 16, Issue 22, 2016, pp. 7977-7985. ISSN: 1530437X, DOI: 10.1109/JSEN.2016.2606246. I.F. 3.076, Q1(SJR),
2. Vertuccio L., Guadagno L., **Spinelli G.**, Lamberti P., Tucci V., Russo S. Piezoresistive properties of resin reinforced with carbon nanotubes for health-monitoring of aircraft primary structures. *Composites Part B: Engineering*. Vol. 107, 15 2016, pp.192-202. ISSN: 13598368. DOI: 10.1016/j.compositesb.2016.09.06.1 I.F. 6.864, Q1(SJR),
3. Guadagno L., Naddeo C., Raimondo M., Barra G., Vertuccio L., Russo S., Lafdi K., Tucci V., **Spinelli G.**, Lamberti P. Influence of carbon nanoparticles/epoxy matrix interaction on mechanical, electrical and transport properties of structural advanced materials. *Nanotechnology*. Vol. 28, Issue 9, 2017, pp. 094001(10). ISSN: 09574484, DOI: 10.1088/1361-6528/aa583d. I.F. 3.339, Q1(SJR),
4. Vertuccio L., Guadagno L., **Spinelli G.**, Russo S., Iannuzzo G. Effect of carbon nanotube and functionalized liquid rubber on mechanical and electrical properties of epoxy adhesives for aircraft structures. *Composites Part B: Engineering*. Vol. 129, Issue 15, 2017, Pages 1-10. ISSN: 13598368, DOI: 10.1016/j.compositesb.2017.07.021. I.F. 6.864, Q1(SJR),
5. Raimondo M., Guadagno L., Vertuccio L., Naddeo C., Barra G., **Spinelli G.**, Lamberti P., Tucci V., Lafdi K. Electrical conductivity of carbon nanofiber reinforced resins: Potentiality of Tunneling Atomic Force Microscopy (TUNA) technique. *Composites Part B: Engineering*. Vol. 143, Issue 15, 2018, pp.148-160. ISSN: 13598368, DOI: 10.1016/j.compositesb.2018.02.005. I.F. 6.864, Q1(SJR),
6. **Spinelli G.**, Lamberti P., Tucci V., Vertuccio L., Guadagno L. Experimental and theoretical study on piezoresistive properties of a structural resin reinforced with carbon nanotubes for strain sensing and damage monitoring. *Composites Part B: Engineering*. Vol. 145, 2018, pp. 90-99. ISSN: 13598368, DOI: 10.1016/j.compositesb.2018.03.025. I.F. 6.864, Q1(SJR),
7. Guadagno L., Raimondo M., Vertuccio L., Naddeo C., Barra G., Longo P., Lamberti P., **Spinelli G.**, Nobile, M.R. Morphological, rheological and electrical properties of composites filled with carbon nanotubes functionalized with 1-pyrenebutyric acid. *Composites Part B: Engineering*. Vol.147, 2018, pp. 12-21. ISSN: 13598368, DOI: 10.1016/j.compositesb.2018.04.036. I.F. 6.864, Q1(SJR),
8. Plyushch A., Lamberti P., **Spinelli G.**, Macutkevič J., Kuzhir P. Numerical simulation of the percolation threshold in non-overlapping ellipsoid composites: Toward bottom-up approach for carbon based electromagnetic components realization. *Applied Sciences (Switzerland)*. Vol. 8, Issue 6, 2018, pp. 882(9). ISSN: 20763417, doi.org/10.3390/app8060882. I.F. 2.217,
9. Vertuccio L., Guadagno L., **Spinelli G.**, Lamberti P., Zarrelli M., Russo S., Iannuzzo G. Smart coatings of epoxy based CNTs designed to meet practical expectations in aeronautics. *Composites Part B: Engineering*. Vol.147, 2018, pp. 42-46. ISSN: 13598368, DOI: 10.1016/j.compositesb.2018.04.027. I.F. 6.864, Q1(SJR),
10. **Spinelli G.**, Lamberti P., Tucci V., Kotsilkova R., Tabakova S., Ivanova R., Angelova P., Angelov V., Ivanov E., Di Maio R., Silvestre C., Meisak D., Paddubskaya A., Kuzhir P. Morphological, rheological and electromagnetic properties of nanocarbon/poly(lactic) acid for 3D printing: Solution blending vs. melt mixing. *Materials*. Vol.11, Issue 11, 2018, pp. 2256(17). ISSN: 19961944, DOI: 10.3390/ma11112256. I.F. 2.972, Q2(SJR),
11. **Spinelli G.**, Lamberti P., Tucci V., Ivanova R., Tabakova S., Ivanov E., Kotsilkova R., Cimmino S., Di Maio R., Silvestre C. Rheological and electrical behaviour of nanocarbon/poly(lactic) acid for 3D printing applications. *Composites Part B: Engineering*. Vol. 167, 2019, pp. 467-476. ISSN: 13598368, DOI: 10.1016/j.compositesb.2019.03.021. I.F. 6.864, Q1(SJR),
12. **Spinelli G.**, Lamberti P., Tucci V., Kotsilkova R., Ivanov E., Menseidov D., Naddeo C., Romano V., Guadagno L., Adami R., Meisak D., Bychanok D., Kuzhir P. Nanocarbon/poly(lactic) acid for 3D printing: Effect of fillers content on electromagnetic and

- thermal properties. *Materials*. Vol. 12, Issue 15, 2019, pp. 2369(20). ISSN: 19961944, DOI: 10.3390/ma12152369. I.F. 2.972, Q2(SJR),
13. Guadagno L., Vertuccio L., Naddeo C., Raimondo M., Barra G., De Nicola F., Volponi R., Lamberti P., **Spinelli G.**, Tucci V. Electrical current map and bulk conductivity of carbon fiber-reinforced nanocomposites. *Polymers*. Vol. 11, Issue 11, 2019, pp. 1865. ISSN: 20734360, DOI: 10.3390/polym11111865. I.F. 3.164, Q2(SJR),
14. **Spinelli G.**, Kotsilkova R., Ivanov E., Petrova-Doycheva I., Menseidov D., Georgiev V., Di Maio R., Silvestre C. Effects of filament extrusion, 3D printing and hot-pressing on electrical and tensile properties of poly(Lactic) acid composites filled with carbon nanotubes and graphene. *Nanomaterials*. Vol. 10, Issue 1, 2020, article number 35, ISSN: 20794991,
15. **Spinelli G.**, Lamberti P., Tucci V., Guadagni L., Vertuccio L. Damage Monitoring of Structural Resins Loaded with Carbon Fillers: Experimental and Theoretical Study. *Nanomaterials*. Vol. 10, Issue 3, 2020, article number 434, ISSN: 20794991, DOI: 10.3390/nano10030434, I.F. 4.034, Q1(SJR),)
16. Spinelli G., Lamberti P., Tucci V., Pasadas F, Jiménez D. Sensitivity analysis of a Graphene Field-Effect Transistors by means of Design of Experiments. *Mathematics and Computers in Simulation Mathematics and Computers in Simulation*, 2020,
17. Spinelli G, Guarini R, Kotsilkova R, Ivanov E, Romano V. Experimental, Theoretical and Simulation Studies on the Thermal Behavior of PLA-Based Nanocomposites Reinforced with Different Carbonaceous Fillers. *Nanomaterials*. 2021; 11(6):1511. IF: 5.075, Q1.
18. Spinelli G, Guarini R, Kotsilkova R, Batakiev T, Ivanov E, Romano V. Experimental and Simulation Studies of Temperature Effect on Thermophysical Properties of Graphene-Based Poly(lactic Acid). *Materials*. 2022; 15(3):986.
19. Giovanni Spinelli, Rumiana Kotsilkova, **Evgeni Ivanov**, Vladimir Georgiev, Carlo Naddeo, Vittorio Romano. Thermal and Dielectric Properties of 3D Printed Parts Based on Poly(lactic Acid Filled with Carbon Nanostructures. *Macromolecular Symposia*, 2022, Vol. 405, Issue 1, 2100244. **SJR: 0.25, Q3.**
- 20 Giovanni Spinelli., Rosella Guarini, Rumiana Kotsilkova, **Evgeni Ivanov**, Dzhihan Menseidov, Vittorio Romano. Thermo-Electric Properties of Poly(lactic) Acid Filled with Carbon-Based Particles: Experimental and Simulation Study. *Macromolecular Symposia*, 2022, Vol. 405, Issue 1, 2100241. **SJR: 0.25, Q3.**
21. G. Spinelli, R. Guarini, R. Kotsilkova, **E. Ivanov**, L. Vertuccio, V. Romano, L. Guadagno. Joule heating effect in carbon-based epoxy resin: an experimental and numerical study. *Bulgarian Chemical Communications*, Volume 55, I 3, 335-343, 2023. **SJR: 0.17; Q4.**
22. Giovanni Spinelli, Rosella Guarini, Rumiana Kotsilkova, Evgeni Ivanov and Vittorio Romano. Experimental, Theoretical and Numerical Studies on Thermal Properties of Lightweight 3D Printed Graphene-Based Discs with Designed Ad Hoc Air Cavities. *Nanomaterials*, 13, 1863, 2023. **IF: 5.719; Q1.** <https://www.mdpi.com/2079-4991/13/12/1863>

#### Патенти

1. Russo S., Iannuzzo G., Lamberti P., **Spinelli G.**, Tucci V., Vertuccio L., Guadagno L. Italian Patent: "Metodo di monitoraggio di un materiale composito". N.102016000042740 (UA2016A002902) - rif: A-525 - (I0166420) BRE-ad, Finmeccanica, <https://www.iris.unisa.it/handle/11386/4681715?mode=full.914>
2. Russo S., Iannuzzo G., Lamberti P., **Spinelli G.**, Tucci V., Vertuccio L., Guadagno L. European Patent: " Method of monitoring a composite material". Application No / Patent No.: 17167744.6 - 1568 / 3242128, <https://worldwide.espacenet.com/patent/search/family/056555620/publication/EP3242128A1?q=pn%3DEP3242128A1>
3. Russo S., Iannuzzo G., Lamberti P., **Spinelli G.**, Tucci V., Vertuccio L., Guadagno L. USA Patent: " Method of monitoring a composite material". US2017313436 (A1) — 2017-11-02, <https://patents.google.com/patent/US20170313436A1/de>

#### Проекти

##### Участие в проекти с външно за България финансиране:

1. European Union's Horizon 2020-MSCA-RISE-734164 Graphene 3D Project 2016 Graphene 3D "Multifunctional Graphene based Nanocomposites with Robust Electromagnetic and Thermal Properties for 3D printing Application" (2017-2021).
2. H2020-FET-Graphene Flagship-881603 Graphene Core 3 (2020-2023).;
3. H2020-SGA-FET-GRAPHENE-2017-785219 Graphene Core 2 (2018-2020).
4. H2020 Graphene Core 1 "Graphene based disruptive technologies" (2016 2018).