

# Publications

## Papers in journals

1. L Ciammaruchi, L Bellucci, V Tozzini, J Martorell [Water splitting for hydrogen chemisorption in graphene oxide dynamically evolving to a graphane character lattice](#), *submitted*
2. G Brancolini, V Tozzini [Multi-scale modeling of Proteins interaction with Functionalized Nanoparticles](#), *Curr Opin Coll Int Sci* **41** 67–73 (2019) DOI: 10.1016/j.cocis.2018.12.001
3. T Cavallucci, V Tozzini, [Intrinsic structural and electronic properties of the Buffer Layer on Silicon Carbide unraveled by Density Functional Theory](#), *Sci Rep* **8** 13097 (2018) DOI: 10.1038/s41598-018-31490-7
4. H Büch, A Rossi, S Forti, D Convertino, V Tozzini, C Coletti [Superlubricity of epitaxial monolayer WS<sub>2</sub> on graphene](#), *Nano Res* **11**, 5946–5956 (2018) DOI: 10.1007/s12274-018-2108-7
5. V D Camiola, V Tozzini, [Collective mode mining from molecular dynamics simulations: a comparative approach](#) *Int J Comp Methods* **15**, 1850108 (2018) DOI: 10.1142/S0219876218501086
6. T Cavallucci, Y Murata, M Takamura, H Hibino, S Heun, V Tozzini [Revealing the nature of defects in quasi free standing mono-layer graphene on SiC\(0001\) by means of Density Functional Theory](#) *Carbon* **130** 466–474 (2018) DOI: 10.1016/j.carbon.2018.01.027
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9. P Mereghetti, G Maccari, G L B Spampinato, V Tozzini [Optimization of analytical potentials for coarse grained bio-polymers models](#) *J Phys Chem B* **120** (33) 8571–8579 (2016) DOI: 10.1021/acs.jpcc.6b02555
10. K Takahashi, S Isobe, K Omori, T Mashoff, D Convertino, V Miseikis, C Coletti, V Tozzini, S Heun [Revealing the multi-bonding state between hydrogen and graphene-supported Ti clusters](#), *J Phys Chem C*, **120** (24) 12974–12979 (2016) DOI: 10.1021/acs.jpcc.6b05207
11. T Cavallucci, V Tozzini, [Multistable rippling of graphene on SiC: A Density Functional Theory study](#), *J Phys Chem C* **120** (14), 7670–7677 (2016) DOI: 10.1021/acs.jpcc.6b01356
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13. A Rossi, S Piccinin, V Pellegrini, S de Gironcoli, V Tozzini [Nano-scale corrugations in graphene: a Density Functional Theory study of structure, electronic properties and hydrogenation](#) *J Phys Chem C* **119** 7900–7910 (2015) DOI: 10.1021/jp511409b
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17. F Bonaccorso, L Colombo, G Yu, M Stoller, V Tozzini, A C Ferrari, R S Ruoff, V Pellegrini [Graphene, related two dimensional crystals, and hybrid systems for energy conversion and storage](#) *Science*, **347** 1246501 (2015) DOI: 10.1126/science
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## Contributions to books

84. T Cavallucci, K Kakhiani, R Farchioni, V Tozzini [Morphing graphene-based systems for applications: perspectives from simulations](#) in *GraphITA 2015 "Selected papers from the Workshop on Synthesis, Characterization and Technological Exploitation of Graphene and 2D Materials Beyond Graphene"* (Carbon Nanostructures Book series, Springer, Cham) Ed by L Ottaviano and V Morandi Eds, pag 87–111 (2017) DOI: 10.1007/978-3-319-58134-7
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## Divulgation

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111. K Kakhiani and V Tozzini [Manipolazione del grafene – Morphing Graphene](#) *PLATINUM – Aziende e Protagonisti, Special Issue Research&Innovation* pag 86, (November 2016)
112. V Tozzini [La Scienza in Europa](#) *Fisica in Medicina* **4** (2014) 14–17
113. V Tozzini [Tre decenni di AIDS: fatti e prospettive](#) *Fisica in Medicina* **1** (2014) 7–10
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116. V Tozzini [Medicina 'Computazionale'](#) *Fisica in Medicina* **1** (2013) 39-45
117. V Tozzini [Una 'zoomata' sulle tecniche sperimentali e teoriche per la biofisica, Parte I](#) *Fisica in Medicina*, **1** (2008) 31-52; [Parte II](#) *ibid* **2** (2008) 125-143; [Parte III](#) *ibid* **3** 218-237 (2008)
118. V Tozzini, F Buda [Simulazioni di Dinamica Molecolare: uno strumento di indagine microscopica in campo biomedico](#) *Atti del Corso-Convegno Procedure operative di misura e valutazioni dosimetriche nelle attività sanitarie*, S. Miniato 10-12 Giugno 1998 (1998)

## Theses

Date	Degree	Title	Supervisor, Referees	Eval
Mar 12th 1993	Degree (MS)	<i>Relazioni di dispersione di fononi in solidi prossimi al punto di fusione nell'ambito della teoria del funzionale di densità</i> Dispersion relations of phonons in solids near the melting point within the Density Functional Theory	Prof. M.P. Tosi (SNS, Pisa) Prof L. Martinalli (Univ Pisa) Prof S. Rosati (Univ Pisa)	Cum Laude
Oct 16th 1997	PhD	Vibrational Properties of Condensed Systems near the Solid-Liquid Transition	Prof. M.P. Tosi, Prof. G. Benedek (Univ Milano) Prof. N.H. March (Oxford Univ)	Cum Laude
Nov 11th 1999	Medical Physics Spec	<i>Tecniche di Modellizzazione Molecolare e Applicazioni a Macromolecole Biologiche e Sistemi Complessi</i> Molecular Modeling Techniques and applications to Biological Macromolecules and Complex Systems	Prof. U. Bottigli (Univ Pisa) Dott. F. Buda (Univ Amsterdam)	Cum Laude

## Links & Bibliometry

Updated info on VT's CV can be found at

- Institution web site: <http://www.nano.cnr.it/index.php?mod=peo&id=256>
- ResearcherID: [E-8206-2011](#); h = 29
- Scopus: [6602188501](#); h = 28
- Google Scholar: [9xqa4mwAAAAJ](#); h = 30
- ORCID: [0000-0002-7586-5039](#)
- Loop: [174125](#)
- Research Gate: [Valentina\\_Tozzini](#); h = 29
- Publons: [1194344](#)