

1. **Graphene nanocoating: high quality and stability upon several stressors**
Rosa V*, Malhotra R, Agarwalla SV, Morin JLP, Luong-Van EK, Han YM, Chew RJJ, Seneviratne CJ, Silikas N, Tan KS, Nijhuis CA, Castro Neto AH.
Journal of Dental Research, 2021.
2. **Fighting viruses with materials science and artificial intelligence**
Rosa V*, Ho D, Sabino RS, Siqueira W, Silikas N.
Dental Materials, 2021.
3. **Persistent inhibition of *Candida albicans* biofilm and hyphae growth on titanium by graphene nanocoating**
Agarwalla SV, Ellepola K, Silikas N, Castro Neto AH, Seneviratne CJ, Rosa V*.
Dental Materials, 2021.
4. **Graphene nanocoating provides superb long-lasting corrosion protection to titanium alloy.**
Malhotra R, Han YM, Silikas N, Nijhuis CA, Castro Neto AH, Rosa V*.
Dental Materials, 2021.
5. **Pulsed electromagnetic fields synergize with graphene to enhance dental pulp stem cell-derived motor neurogenesis by targeting with TRPC1 channel.**
Madanagopal TT, Han LS, Tai YK, Fong CHH, Tong C, Rosa V, Franco-Obregon A*.
European Cells and Materials, 2021.
6. **Characterization, antimicrobial effects, and cytocompatibility of a root canal sealer produced by pozzolan reaction between calcium hydroxide and silica.**
Kim MA, Rosa V, Neelakantan P, Hwang YC, Min KS* 4 and Kyung-San Min.
Materials, 2021.
7. **Mechanical properties and in vitro cytocompatibility of dense and porous Ti-6Al-4V ELI manufactured by selective laser melting technology for biomedical applications.**
Suresh S, Sun CH, Tekumalla S, Nai SML Rosa V, Wong RCW*.
Journal of the Mechanical Behavior of Biomedical Materials, 2021.
8. **Inhibiting corrosion of biomedical Ti-6Al-4V alloys with graphene nanocoating**
Malhotra R, Han YM, Morin JLP, Luong-Van EK, Chew RJJ, Castro Neto AH, Nijhuis CA, Rosa V*.
Journal of Dental Research, 2020.
9. **Osteogenic potential of graphene coated titanium is independent of transfer technique**
Dubey N, Morin JLP, Luong-Van EK, Agarwalla SV, Silikas N, Castro Neto AH, Rosa V*.
Materialia, 2020.
10. **Mechanisms of graphene influence on cell differentiation**
Luong-Van EK, Madanagopal TT, Rosa V*.
Materials Today Chemistry, 2020.
11. **Biomechanics of alloplastic mandible reconstruction using biomaterials: The effect of implant design on stress concentration influences choice of material**
Somasundaram P, Suresh S, Hong K, Bhargav A, Rosa V, Wong R*.
Journal of the Mechanical Behavior of Biomedical Materials, 2020
12. **Characterization of *Enterococcus faecalis* in different culture conditions**
Kim MA, Rosa V, Min KS*.

Scientific Reports, 2020.

- 13. Polymer nanocomposites based on poly(ϵ -caprolactone), hydroxyapatite and graphene oxide**
Medeiros GS, Muñoz PAR, Oliveira CFP, Silva LCE, Malhotra R, Gonçalves MC, Rosa V, Fechine GJM*.
Journal of Polymers and the Environment, 2020.
- 14. Comparative study of different induction protocols for neural differentiation of human dental pulp stem cell in vitro**
Madanagopal TT, Franco-Obregon A, Rosa V*.
Archives of Oral Biology, 2019.
- 15. Taguchi's methods to optimize the properties and bioactivity of 3D printed polycaprolactone/mineral trioxide aggregate scaffold: theoretical predictions and experimental validation**
Bhargav A, Min KS, Feng LW, Fuh JYH, Rosa V*.
Journal of Biomedical Materials Research Part B-Applied Biomaterials, 2020.
- 16. Hydrophobicity of graphene as a driving force for inhibiting biofilm formation of pathogenic bacteria and fungi**
Agarwalla SV, Ellepola K, Morin JLP, Costa M, Fechine G, Castro Neto AH, Seneviratne CJ, Rosa V*.
Dental Materials, 2019.
- 17. Translucency, hardness and strength parameters of PMMA resin containing graphene-like material for CAD/CAM restorations**
Agarwalla SV, Malhotra R, Rosa V*.
Journal of the Mechanical Behavior of Biomedical Materials, 2019.
- 18. Graphene-induced osteogenic differentiation is mediated by the integrin/FAK axis**
Xie H, Cao T, Franco-Obregon, Rosa V*.
International Journal of Molecular Sciences, 2019.
- 19. Antibiotics used in regenerative endodontics modify immune response of macrophages to bacterial infection**
Tan EE, Quah SY, Bergenholtz G, Rosa V, Yu VSH, Tan KS*.
Journal of Endodontics, 2019.
- 20. Graphene to improve the physicochemical properties and bioactivity of the cements**
Rosa V*, Rodriguez-Lozano FJ, Min KS.
Advanced Dental Materials, Zohaib Kurshid. 1st ed. London: Elsevier, 2019.
- 21. Graphene onto medical grade titanium: an atom-thick multimodal coating that promotes osteoblast maturation and inhibit biofilm formation from distinct species**
Dubey N, Ellepola K, Decroix F, Morin J, Castro Neto AH, Seneviratne J, Rosa V*.
Nanotoxicology, 2018.
- 22. Functional odontoblastic-like cells from human iPSCs**
Xie H, Dubey N, Shim W, Ramachandra C, Cao T, Rosa V*.
Journal of Dental Research, 2018.
- 23. Thermo-setting glass ionomer cements promote variable biological responses of human dental pulp stem cells**

Collado-González MM, Pecci-Lloret MR, Tomás-Catalá CJ, García-Bernal D, Sánchez RO, Llana C, Forner L, **Rosa V**, Rodríguez Lozano FJ*.
Dental Materials, 2018.

24. Enhanced skin permeation of antiwrinkle peptides via molecular modification

Lim SH, Sun Y, Madanagopal T, **Rosa V**, Kang L*.
Scientific Reports, 2018.

25. Applications of additive manufacturing in dentistry: A review

Bhargav A, Sanjairaj V, **Rosa V**, Fen LW, Fuh JYH.
Journal of Biomedical Materials Research Part B-Applied Biomaterials, 2018.

26. Root canal filling quality of a premixed calcium silicate endodontic sealer applied using gutta-percha cone-mediated ultrasonic activation

Kim JA, Hwang YC, **Rosa V**, Yu MK, Lee KW, Min KS*.
Journal of Endodontics, 2018.

27. Effect of staining beverages on color and translucency of CAD/CAM composites

Quek SHQ*, Yap AUJ, **Rosa V**, Tan KBC, Teoh KH.
Journal of Esthetic and Restorative Dentistry, 2018.

28. Graphene transfer to 3-dimensional surfaces a vacuum-assisted dry transfer method

Morin JLP, Dubey N, Decroix FED, Luong-Van EK, Castro Neto AH, **Rosa V***.
2D Materials, 2017.

29. Graphene for the development of the next-generation of biocomposites for dental and medical applications

Xie H, Luong-Van E, Lozano FJR, Cao T, Castro Neto AH, **Rosa V***.
Dental Materials, 2017.

30. CVD-grown monolayer graphene induces osteogenic but not odontoblastic differentiation of dental pulp stem cells

Xie H, Chua M, Viana Gomes JC, Bentini R, Islam I, Cao T, Castro Neto AH, **Rosa V***.
Dental Materials, 2017.

31. Effects of epigallocatechin gallate, an antibacterial cross-linking agent, on proliferation and differentiation of human dental pulp cells cultured in collagen scaffolds

Kwon YS, Kim HJ, Hwang YC, **Rosa V**, Yu MK, Min KS*.
Journal of Endodontics, 2017.

32. Graphene nanosheets to improve physico-mechanical properties of bioactive calcium silicate cements

Dubey N, Rajan SS, Dal Bello Y, Min KS, **Rosa V***.
Materials, 2017.

33. CVD graphene transfer procedure to the surface of stainless steel for stem cell proliferation

Rodríguez CLC, Kessler F, Dubey N, **Rosa V**, Fechine GJM*.
Surface and Coatings Technology, 2017.

34. Behaviour of human dental pulp cells cultured in a collagen hydrogel scaffold crosslinked with cinnamaldehyde

Kwon YS, Lee SH, Hwang YC, **Rosa V**, Lee KW, Min KS*.
International Endodontic Journal, 2017.

- 35. Graphene oxide-based substrate: physical and surface characterization, cytocompatibility and differentiation potential of dental pulp stem cells**
Rosa V*, Xie H, Dubey N, Madanagopal TT, Rajan SS, Islam I, Morin JLP, Castro Neto AH. *Dental Materials*, 2016.
- 36. In vitro osteogenic potential of green fluorescent protein labelled human embryonic stem cell-derived osteoprogenitors**
Islam I, Sriram G, Li M, Zou Y, Li L, Handral HK, Rosa V, Cao T*. *Stem Cells International*, 2016.
- 37. Pluripotency of stem cells from human exfoliated deciduous teeth (SHED) for tissue engineering**
Rosa V*, Dubey N, Min KS, Nör JE. *Stem Cells International*, 2016.
- 38. Smart carbon nanotubes and graphenes for tissue engineering**
Rosa V*, Dubey N, Han X, Rajan SS. *Smart Materials for Tissue Engineering: Fundamental Principles*. Qun Wang. 1st ed. London: Royal Society of Chemistry, 2016.
- 39. Effects of chondro-osseous regenerative compound associated with local treatments in the regeneration of dehiscence defects: an in vivo study**
Tonetto A, Lago PW, Borba M, Rosa V*. *Clinical Oral Investigations*, 2016.
- 40. Dental stem cells for dental pulp regeneration**
Dubey N, Min KS, Rosa V*. *Dental Stem Cells: Regenerative Potential*. Barbara Zavan and Erierto Bressan. 1st ed. London: Springer, 2016.
- 41. Pluripotent stem cells: an in vitro model for nanotoxicity assessments**
Handral H, Tong H, Islam I, Gopu S, Rosa V, Cao T*. *Journal of Applied Toxicology*, 2016.
- 42. Fabrication and evaluation of electrohydrodynamic jet 3D printed polycaprolactone/chitosan cell carriers using human embryonic stem cell-derived fibroblasts**
Wu Y, Gopu S, Fawzy AS, Fuh JYH, Rosa V, Cao T, Wong YS*. *Journal of Biomaterials Applications*, 2016.
- 43. Fabrication of dentin-like scaffolds through combined 3D printing and bio-mineralisation**
Wy Y, Azmi DFB, Rosa V, Fawzy AS, Fuh JYH, Wong YS, Lu WF*. *Cogent Engineering*, 2016.
- 44. HESC to iPSC: prohibition to controlled permissiveness to ethical panacea**
Islam I*, Rosa V, Wong R, Cao T. *Eubios Journal of Asian and International Bioethics*, 2016.
- 45. Tooth discoloration induced by a novel mineral trioxide aggregate-based root canal sealer**
Lee DS, Lim MJ, Choi Y, Rosa V, Hong CU, Min KS*. *European Journal of Dentistry*, 2016.
- 46. Reliability, failure probability and strength of resin-based materials for CAD/CAM restorations**
Lim KT, Yap AU, Agarwalla SV, Tan KB, Rosa V*.

Journal of Applied Oral Science, 2016.

- 47. Two and three-dimensional graphene substrates to magnify osteogenic differentiation of periodontal ligament stem cells**
Xie H, Cao T, Viana Gomes JC, Castro Neto AH, Rosa V*.
Carbon, 2015.
- 48. Graphene: a versatile carbon-based material for bone tissue engineering**
Dubey N, Bentini R, Islam I, Cao Y, Castro Neto AH, Rosa V*.
Stem Cells International, 2015.
- 49. Fatigue stipulation of bulk-fill composites: an in vitro appraisal**
Vidhawan SA, Yap AU, Ornaghi BP, Banas A, Banas K, Neo JC, Pfeifer CS, Rosa V*.
Dental Materials, 2015.
- 50. Bioactivity, physical and chemical properties of MTA mixed with propylene glycol**
Natu VP, Dubey N, Loke GCL, Tan TS, Ng WH, Yong CW, Cao T, Rosa V*.
Journal of Applied Oral Sciences, 2015.
- 51. Modulation of dental pulp stem cell odontogenesis in a tunable PEG-fibrinogen hydrogel system**
Lu Q, Pandya M, Jalil RA, Rosa V, Tong H, Seliktar D, Toh WS*.
Stem Cells International, 2015.
- 52. Structural reinforcement and sealing ability of temporary fillings in premolar with class II MOD cavities**
Dal Bello Y, Barbizan JV, Rosa V*.
Journal Contemporary Dental Practice, 2014.
- 53. Inducing pluripotency for disease modeling, drug development and craniofacial applications**
Rosa V*, Toh WS, Cao T, Shim W.
Expert Opinion on Biological Therapy, 2014.
- 54. Dental pulp tissue engineering in full-length root canals**
Rosa V, Zhang Z, Grande RHM, Nör JE*.
Journal Dental Research, 2013.
- 55. What and where are the stem cells for Dentistry?**
Rosa V*.
Singapore Dental Journal, 2013.
- 56. And now? Who will be the authors?**
Rosa V*, Fechine GJM.
JSM Dentistry, 2013.
- 57. Subcritical crack growth and in vitro lifetime prediction of resin composites with different filler distributions**
Ornaghi BP, Meier MM, Rosa V, Cesar PF, Lohbauer U, Braga RR*.
Dental Materials, 2012.
- 58. Tissue engineering: from research to dental clinics**
Rosa V, Della Bona A*, Cavalcanti B, Nör JE.
Dental Materials, 2012.
- 59. Effect of ion exchange on R-curve behavior of a dental porcelain**
Cesar PF, Rosa V, Pinto MM, Yoshimura HN, Xu LR*.

Journal of Materials Science, 2011.

60. Effect of test environment and microstructure on the flexural strength of dental porcelains

Rosa V, Cesar PF*, Pereira CFS, Pinto MM, Yoshimura HN.

Journal of Prosthodontics, 2011.

61. Regenerative endodontics in light of the stem cell paradigm

Rosa V; Botero TM, Nör JE*.

International Dental Journal, 2011.

62. Could be flowable composites considered as a reliable material for bracket bonding?

Pick B, Rosa V, Miranda Jr W*.

Journal Contemporary Dental Practice, 2010.

63. Effect of ion exchange temperature on mechanical properties of a dental porcelain.

Rosa V, Fredericci C, Moreira MF, Yoshimura HN, Cesar PF* .

Ceramics International, 2010.

64. Visual and instrumental agreement in dental shade selection: three distinct observer populations and shade matching protocols

Della Bona A*, Barrett A, Rosa V, Pinzetta C.

Dental Materials, 2009.

65. Effect of ion exchange on strength and slow crack growth of a dental porcelain

Rosa V, Yoshimura HN, Pinto MM, Fredericci C, Cesar PF*.

Dental Materials, 2009.

66. Influence of pH on slow crack growth of dental porcelains

Pinto MM, Cesar PF*, Rosa V, Yoshimura HN.

Dental Materials, 2008.

67. Seleção de cor em consultório: das escalas convencionais aos espectrofotômetros [In-office shade matching: from shade guides to spectrophotometers]

Rosa V, Della Bona A*.

International Journal of Brazilian Dentistry, 2007.

68. Influence of shade and irradiation time on the hardness of composite resins

Della Bona A*, Rosa V, Cecchetti D.

Brazilian Dental Journal, 2007.

69. Effect of acid etching of glass ionomer cement surface on the microleakage of sandwich restorations

Della Bona A*, Pinzetta C, Rosa V.

Journal of Applied Oral Science, 2007.

70. Prótese Total Imediata: Fundamentos e Clínica [Immediate Complete Dentures: Concepts and Clinic]

Rosa V, Della Bona A, Antonio AJ, Pereira TR, Nadin PS.

Jornal Brasileiro de Clínica Odontológica Integrada 1:01-09, 2006.