رزومه کاری

1- مشخصات فردی

نام و نام خانوادگی: مجتبی قطعی

تاریخ تولد : 1354/6/15

نشانی محل کار : دانشگاه شاهرود- دانشکده مکانیک

نشانی محل اقامت : شاهرود- دانشگاه شاهرود- واحد 4

اطلاعات تماس : تلفن ثابت 0273- 3300258

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2- سوابق تحصیلی

مقطع	سال اخذ مدرک	محل اخذ مدرک	گرایش تحصیلی	رشته تحصیلی
کارشناسی	۱۳۷۹	دانشگاه شیراز	شکل دادن فلزات	مهندسی مواد
کارشناسی ارشد	۱۳۸۱	دانشگاه شیراز	شناسایی، انتخاب و ساخت مواد فلزی	مهندسی مواد
دکتری	۱۳۸۷	دانشگاه شیراز	مهندسی مواد	مهندسی مواد

3- مشخصات پایان نامه ها

پایان نامه کارشناسی ارشد : بررسی اثر نیکل بر خواص سایش آلومینیم A356

خلاصه : در این پایان نامه اثر نیکل بر ریز ساختار و خواص مکانیکی کامپوزیتهای زمینه فلزی آلومینیم بررسی شده است.

پایان نامه دکتری : بهینه سازی خواص سنسور اکسیژن

در این پایان نامه خواص الکتریکی و مکانیکی کامپوزیتهای سرامیکی پایه زیرکونیا به منظور کاربرد در سنسورهای اکسیژن بررسی شده است.

4- پروژه های انجام شده در زمینه

4-1- ساخت لایه های نازک آلومینا و زیرکونیا به روش ریخته گری نواری

4-2- ساخت قطعات نازل دمای بالا به روش پرس تک محوره

4-3- ساخت قطعات دما بالا به روش قالب گیری تزریقی

4-4- ساخت لایه های نازک زیرکونیا به روش چاپ توری

4-5- ساخت قطعات گرد لایه نازک به روش چاپ توری (Screen printing)

4-6- ساخت سنسور اکسیژن پایه زیرکونیا به روش فشردن ایزواستاتیک سرد

4-7- ساخت سنسور اکسیژن پایه زیرکونیا به روش تزریق

4-8- ساخت شمع جرقه زن موتورهای هوایی به روش پرس ایزواستاتیک سرد

4-9- ساخت قطعات عایق الکتریکی دمای بالا به روش تزریق

4-10- ساخت پیل های سوختی اکسید جامد گایه زیرکونیا به روش ریخته گری نواری

4-11- ساخت میکروپیل های سوختی اکسید جامد پایه زیرکونیا به روش اکستروژن

4-12- ساخت میکروله های آلومینا به روش اکستروژن

4-13- ساخت بوته های آلومینایی به روش ریخته گری دوغابی

4-14- اعمال پوشش های SiC بر روی سطح آلومینا به روش سل ژل برای کاربرد در شمع های جرقه زن دمای بالا

4-15- ساخت راهنماهای سرامیکی قالب های کشش سیم (در حال انجام)

4-16- سنتز فاز مکس Ti_3SiC_2

4-17- ساخت سیال مغناطیسی- الاستومرهای مغاطیسی . پلیمرهای رسانا

4-18- ساخت لایه های نازک سرامیک های پیزوالکتریک از جنس PZT

4-19 ساخت زیرلایه های نازک آلومینا

4-15- ساخت قطعات دیسک شکل دقیق آلومینایی به روش ریخته گری ژله ای

4-16- ساخت بلوک های سرامیکی از جنس زیرکونیا جهت کاربرد در ایمپلنت های پزشکی

4-20- سنتز پودر ابررسانای YBCOدر مقیاس آزمایشگاهی

4-21- ساخت میکرو المنت های حرارتی از جنس پلاتین به روش چاپ توری (در حال انجام)

5- مقالات

1- M. Ghatee, M.H. Shariat, J.T.S. Irvine, "Investigation of electrical and mechanical properties of3Y-TZP/Cubic zirconia solid electrolytes with composite structure prepared by near net shape forming" , Solid State Ionics 180 (2009) 5762.

2- M. Ghatee, M.H. Shariat, J.T.S. Irvine , Investigation of electrical and mechanical properties of 3YSZ/8YSZ composite electrolytes, Solid State Ionics 180 (2009) 5762

3- M. Ghatee, M.H. Shariat, J.T.S. Irvine, Production of high conductivity composite zirconia solid oxide electrolytes with good mechanical strength through net-shape J. Mater. Chem., 2008, 18, 5237 – 5242.

4- M. Ghatee, and J. T. S. Irvine, Investigation of electrical and mechanical properties of tetragonal/cubic zirconia composite electrolytes prepared through stabilizer coating method, Int. J. Hydrogen energy, 2010, Vol. 35, 9427-9433

5- M. Ghatee, F. Salari, Electrical and Mechanical Properties of 5YSZ Tubular Thin Film Prepared by Screen Printing Method, Int. J. Applied Ceramic Technology, 16(2016),373-381.

6- M. Ghatee, H. Salihi, Electrical and mechanical properties of 25 wt% tetragonal/cubic zirconia based composite thin films prepared by combination of aqueous tape casting and net shape methods, J. Electroceram., 35(2015), 98-105.

7- H. Asadollahi-yazdi, M. Shariati,, A. Imam, M. Ghatee, Investigating the mechanical properties of layered graphene/polyoxymethylene nanocomposites prepared by the spray method, Journal of composite materials, 51(2017), 3053-3064.

8- M. Ghatee, Electrical and mechanical properties of zirconia based cubic/tetragonal

composite electrolytes prepared by solution coating method, Fuel cells, 18(2018), 13-17.

9- M. Ghatee, M. H. Shariat, Investigation of electrical and mechanical properties of tetragonal/cubic composite electrolyes prepared by impregnation of cubic zirconia with zirconia solution, Iran. J. mat. Sci. eng., 8(2011), 9-18.

10- H. Salihi, M. Ghaee, Investigation of the mechanical properties of various yttria stabilized zirconia based thin films prepared by aqueous tape casting, Advanced ceramic progress, 3(2017), 26-30.

11- A. Jalali, H. Dianati, M. Norouzi, H. Vatandoost, M. Ghatee, A novel bi-directional shear mode magneto-rheological elastomer vibration isolator, J. Intel. Mat. Sys. Str., (2020), in press.

12- S. H. Mussavi Rizi, M. ghatee, A study of mechanical properties of alumina –zirconia composite films prepared by a combination of tape casting and solution impregnation method, J. Aus. Ceram. Soc., 56(2020), 167-174.

13- N. Arab Baseri , M. Mohammadi , M. Ghatee , M. Abassi-Firouzjah, H. Elmkhah, The effect of duty cycle on the mechanical and electrochemical corrosion properties of multilayer CrN/CrAlN coatings produced by cathodic arc evaporation, Surf. Eng, 2020, in press.

14- F. Salari, A. Badihi Najafabadi, M. Ghatee, M. Golmohammad, Hybrid additive manufacturing of the modified electrolyte-electrode surface of planar solid oxide fuel cells, Int. J. Applied Ceramic Technology, 17(2020), 1554-1561.

15- A.H. Dorosti, M. Ghatee, M. Norouzi, Preparation and characterization of water-based magnetorheological fluid using wormlike surfactant micelles, 498 (2020) 166193.

16- S. H. Mussavi Rizi, M. Ghatee, Rheological and mechanical properties of tape-casted zirconia-toughened alumina composite thick films reinforced with multiwalled carbon nanotubes, J. comps. mater, 54(2019), 2353-2363.

17- P. Safarzadeh Kermani, M. Ghatee, A. Yazdani, Synthesis and characterization of barium aluminosilicate glass as the sealant for solid oxide fuel cell application, Adv. ceram. prog., (2020), in press.

18- P. Safarzadeh kermani, M. Ghatee, J.T.S. Irvie, Chracterization of barium-calcium-aluminosilicate glass/fiber glass composite seal for intermediate temperature solid oxide fuel cells, Boletin de la Sociedad Espanola De Ceramica Y Vidrio,2022, In press

19- A. Yaghoobi, A. Jalali, M. Nouroozi, M. Ghatee, Aspect Ratio Dependency of Magneto-Rheological Elastomers in Dynamic Tension-Compression Loading, IEEE Transactions on Magnetics, 2022, in press

20- P. Safarzadeh, N. Rezaei, M. Ghatee, Barium-calcium aluminosilicate glass/mica composite seals for intermediate solid oxide fuel cells, Ceramic Int, 2021(47), 21679-21687.

21- A. Kargar, S. Salimi, M.J. Molaei, M. Ghatee, A potential trackable bone filler: preparation and characterization, 2021(18), 1921-1929.

22- M. Yousefi, M. Ghatee, M. Rezakezemi, S.H. Ghaderi, The effects of adding nano-alumina filler on the properties of polymer-derived SiC coating, Int. J. of app. Ceram. Tech., 2021 (18), 2197-2206.

23- R. Kherad, S. Dodangei, S.H. Mousavi, M. Ghatee, The effects of adding nano-alumina filler on the properties of polymer-derived SiC coating, J. of electroceram., 2021(46), 32-42.

24- H. Naseri, M. ghatee, A. Yazdani, M. Mohammadi, S. Manafi, Characterization of the 3YSZ/CNT/HAP coating on the Ti6Al4V alloy by electrophoretic deposition, J. Biomater. Res., 2021(109), 1395-1406.

25- A. Jalali, H. Dianati, M. Norouzi, H. Vatandoost, M. Ghatee, Characterization of the 3YSZ/CNT/HAP coating on the Ti6Al4V alloy by electrophoretic deposition, Journal of Intelligent Material Systems and Structures, 2021(31), 1-18.

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1- Personal information

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Research interest: Solid oxide fuel cells, Colloids, Ceramic processing methhods

2- Education

1- BS in materials science and engineering, 2000, Shiraz University

2- MSc in materials science and engineering, 2002, Shiraz University

3- PhD in materials science and engineering, 2009, Shiraz University

3- Working experience

1- Academic Staff at Shahrood University of Technology (from 2008) as a lecturer and researcher.

2- Manager of fuel cell and ceramic processing lab (from 2009).

3- Dean of materials science and engineering faculty (20014-2018).

4- Journal papers

1- M. Ghatee, M.H. Shariat, J.T.S. Irvine, "Investigation of electrical and mechanical properties of3Y-TZP/Cubic zirconia solid electrolytes with composite structure prepared by near net shape forming" , Solid State Ionics 180 (2009) 5762.

2- M. Ghatee, M.H. Shariat, J.T.S. Irvine , Investigation of electrical and mechanical properties of 3YSZ/8YSZ composite electrolytes, Solid State Ionics 180 (2009) 5762

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5- M. Ghatee, F. Salari, Electrical and Mechanical Properties of 5YSZ Tubular Thin Film Prepared by Screen Printing Method, Int. J. Applied Ceramic Technology, 16(2016),373-381.

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7- H. Asadollahi-yazdi, M. Shariati,, A. Imam, M. Ghatee, Investigating the mechanical properties of layered graphene/polyoxymethylene nanocomposites prepared by the spray method, Journal of composite materials, 51(2017), 3053-3064.

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10- H. Salihi, M. Ghaee, Investigation of the mechanical properties of various yttria stabilized zirconia based thin films prepared by aqueous tape casting, Advanced ceramic progress, 3(2017), 26-30.

11- A. Jalali, H. Dianati, M. Norouzi, H. Vatandoost, M. Ghatee, A novel bi-directional shear mode magneto-rheological elastomer vibration isolator, J. Intel. Mat. Sys. Str., (2020), in press.

12- S. H. Mussavi Rizi, M. ghatee, A study of mechanical properties of alumina –zirconia composite films prepared by a combination of tape casting and solution impregnation method, J. Aus. Ceram. Soc., 56(2020), 167-174.

13- N. Arab Baseri , M. Mohammadi , M. Ghatee , M. Abassi-Firouzjah, H. Elmkhah, The effect of duty cycle on the mechanical and electrochemical corrosion properties of multilayer CrN/CrAlN coatings produced by cathodic arc evaporation, Surf. Eng, 2020, in press.

14- F. Salari, A. Badihi Najafabadi, M. Ghatee, M. Golmohammad, Hybrid additive manufacturing of the modified electrolyte-electrode surface of planar solid oxide fuel cells, Int. J. Applied Ceramic Technology, 17(2020), 1554-1561.

15- A.H. Dorosti, M. Ghatee, M. Norouzi, Preparation and characterization of water-based magnetorheological fluid using wormlike surfactant micelles, 498 (2020) 166193.

16- S. H. Mussavi Rizi, M. Ghatee, Rheological and mechanical properties of tape-casted zirconia-toughened alumina composite thick films reinforced with multiwalled carbon nanotubes, J. comps. mater, 54(2019), 2353-2363.

17- P. Safarzadeh Kermani, M. Ghatee, A. Yazdani, Synthesis and characterization of barium aluminosilicate glass as the sealant for solid oxide fuel cell application, Adv. ceram. prog., (2020), in press.

5- Conference paper

1- M. Ghatee, M.H. Shariat, J.T.S. Irvine, Investigation of electrical and mechanical properties of composite samples with core/shell structure prepared through net shape, presented in : Electroceramics XI conference , 31st August - 4th September 2008, Manchester, UK

2- M. Ghatee, M.H. Shariat, J.T.S. Irvine, Investigation of Electrical and Mechanical Properties of Tetragonal/Cubic Composite Electrolytes Prepared by Impregnation of 8YSZ with Zirconia Solution to be presented in 216th ECS Meeting, October 4-9, 2009, Vienna, Austria.

3- Mojtaba Ghatee, Seyed Hadi Ghaderi and Omid Sam Dalir, Preparation and charactirzation of alumina/3YSZ nanocomposite doped with alumina-coated multi-wall carbon nanotubes, UFGNSM 2013, Tehran, Iran

4- Mojtaba Ghatee, Omid Sam Dalir, M Zamani, Manufacturing of Alumina/Zirconia composites by polymer impregnation method, 3rd International Conference on Composites: Characterization, Fabrication and Application (CCFA-2), 2012, Tehran, Iran

6-Research project

1- The manufacturing of zirconia based thin film by tape casting method.

2- The manufacturing of micro-tubular solid oxide fuel cells by extrusion method

3- The manufacturing of zirconia based oxygen sensor by ceramic injection molding.

4- The manufacturing and characterization of button like Solid oxide fuel cell by powder compaction method.