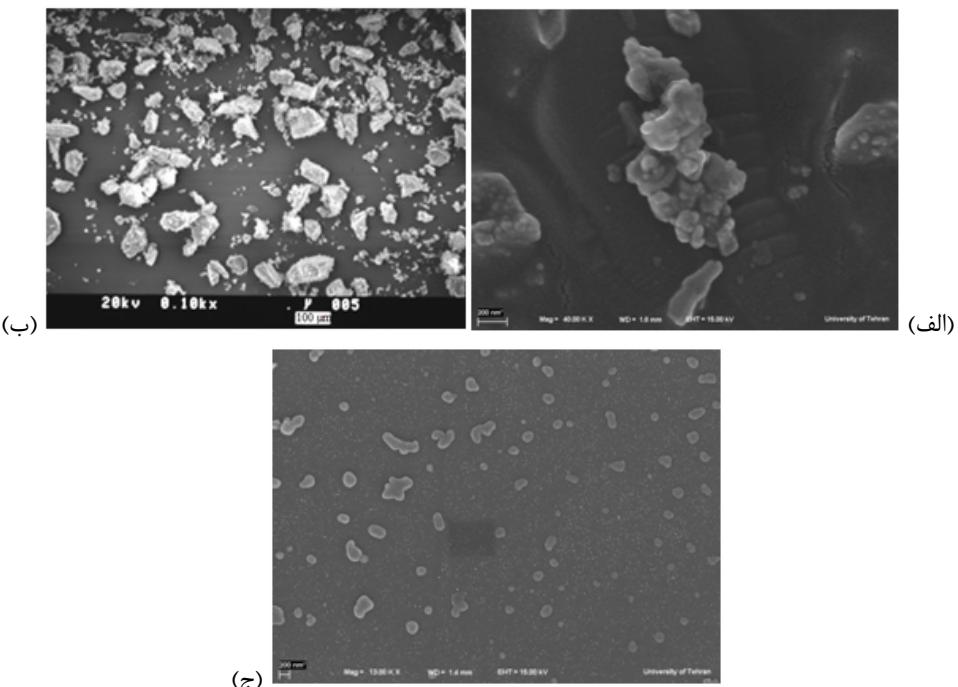
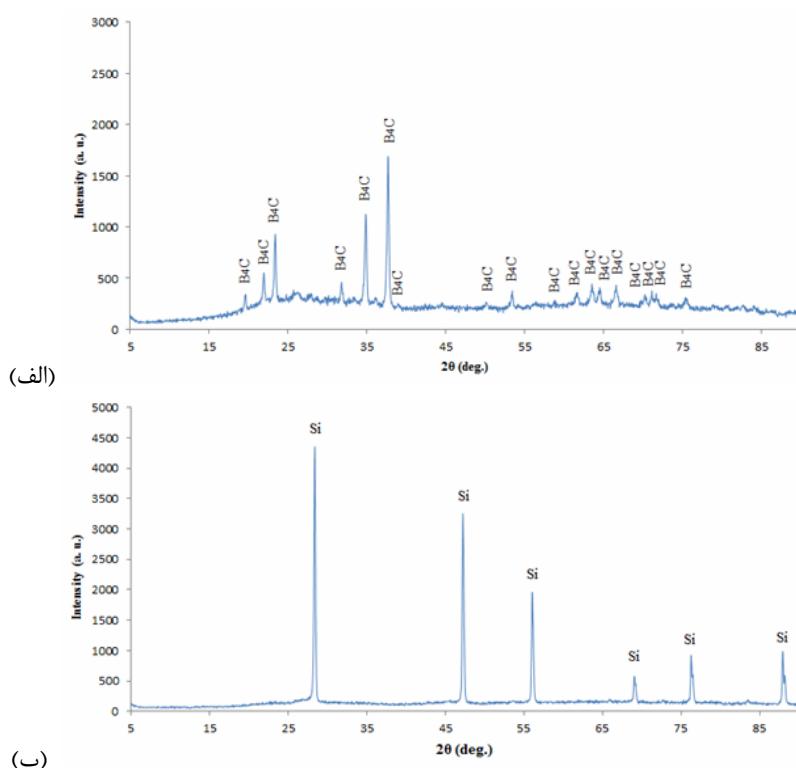


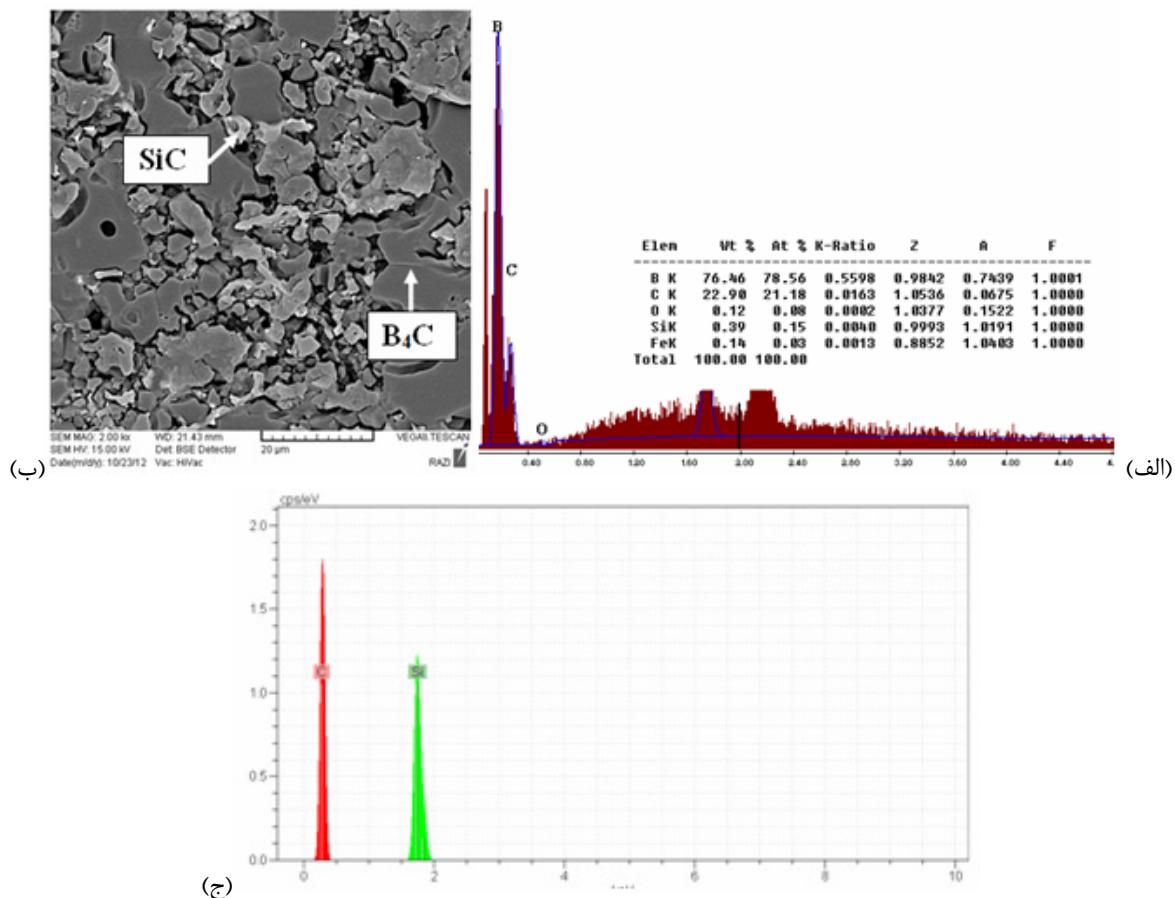
آورده شده است. آنالیزهای فازی این مواد نیز در شکل ۲ آورده شده است و همانطور که مشاهده می‌شود در این تصاویر فقط فازهای کاربید بور و سیلیکون قابل مشاهده‌اند.



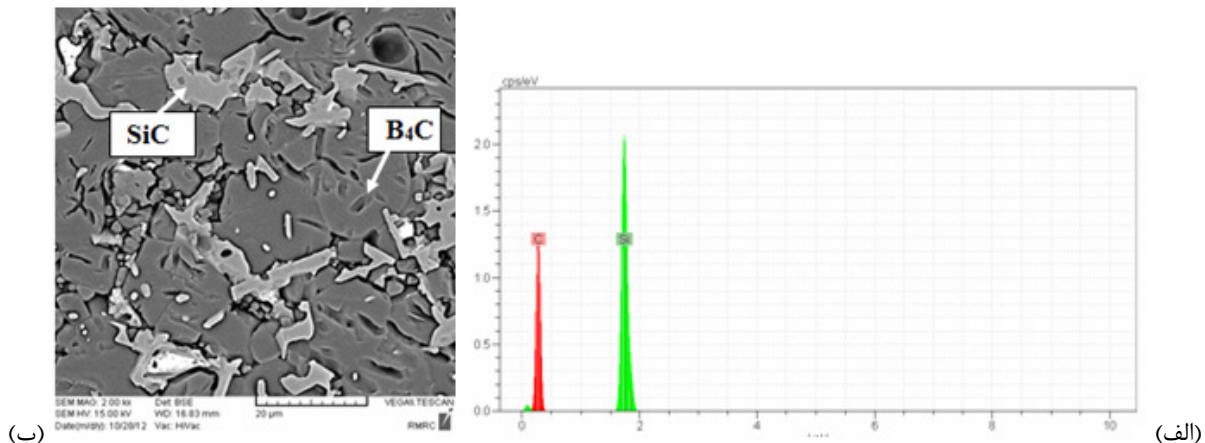
شکل ۱- تصاویر ریزساختاری (الف) پودر کاربید بور، (ب) پودر سیلیکون میکرون و (ج) پودر سیلیکون نانو.



شکل ۲- الگوهای پراش اشعه X، (الف) پودر کاربید بور و (ب) نانو پودر سیلیکون.



شکل ۶- نمونه حاوی ۲/۵ درصد وزنی نانو سیلیکون زینتر شده در دمای ۲۰۰ درجه سانتی گراد
(الف) تصویر ریزساختاری، (ب) آنالیز EDS ناحیه کاربید بور و (ج) آنالیز EDS ناحیه .SiC



شکل ۷- نمونه حاوی ۵ درصد وزنی نانو سیلیکون زینتر شده در دمای ۲۰۰ درجه سانتی گراد (الف) تصویر ریزساختاری و (ب) آنالیز EDS ناحیه .SiC

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