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is most commonly represented by ceramics, metals, and polymers.

While noted improvements have taken place in the area of ceramics and metals, it is the field of polymers that has ...

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In this study, we used a molecular density functional theory (DFT) approach combined with the B3LYP functional at the 6-31+G(d, p) basis set to validate the feasibility of predicting static

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dielectric constants
of the polymer
materials. First, we
assessed the
influence of the
basis sets on the
polarizability.
Furthermore, the
changes of
polarizability,
polarizability per
monomer unit, and
...

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Rapid precursor
pyrolysis and
product
crystallization
during flash lamp
processing, even in
air, limit oxidation
of the resulting
ceramics. To
prepare the
nanocomposites,

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PCPs are coated onto woven carbon fiber fabrics, thermally cross-linked, and then flash-lamp-pyrolyzed. The resulting nanocomposites are thermally and oxidatively stable at ...

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The word "ceramic"
is derived from the
Greek word ...

Theory of chemical
processing

Microstructural
uniformity In the ...

In addition, the
principal
mechanical
characteristics and
structures of

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biological ceramics,
polymer
composites,
elastomers, and
cellular materials
are being re-
evaluated, with an
emphasis on
bioinspired
materials and
structures.
Traditional
approaches focus
on design ...

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The morphology of polymer blends plays a critical role in determining the properties of the blends and performance of resulting injection-molded parts. However, it is

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currently impossible to predict the morphology evolution during injection molding and the final micro-structure of the molded parts, as the existing models for the morphology evolution of polymer blends are still limited to a few

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electrolyte . 5 .
Conduction

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Mechanisms . 6 .

Vacancy
conduction

Interstitial
conduction .

Schottky. defect (a
cation & anion
vacancy pair)

Frenkel. defect . T

$\uparrow \rightarrow$ defect $\uparrow \rightarrow$

conductivity \uparrow

\therefore shows Arrhenius

relationship) RT E

$\sigma_T = A \exp(-a$

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Derived from
Random walk
theory . Basic
Theory – the
concept of material
design . High
mobile ion
concentration High
number of ...

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Industrial
biotechnology,
bioprocessing
technologies
(industrial
processes relying
on biological
agents to drive the
process)
biocatalysis,
fermentation;
byproducts

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(products that are manufactured using biological material as feedstock) biomaterials, bioplastics, bio fuels, bio-derived bulk and fine chemicals. bio-derived novel materials:

.

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