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The polymer to
ceramic

transformation
process enabled
significant
technological
breakthroughs in
ceramic science
and technology,
such as the
development of
ceramic fibers,

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coatings, or
ceramics stable at
ultrahigh
temperatures (up
to 2000°C) with
respect to
decomposition,
crystallization,
phase separation,
and creep.

*Polymer-Derived
Ceramics: 40 Years
of Research and ...*

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Polymer derived ceramics, referred to commonly as PDCs, is a term for ceramic materials formed by the pyrolysis of preceramic polymers, usually under inert atmosphere. The compositions of PDCs most commonly include

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silicon carbide
(SiC), silicon
oxycarbide ($\text{SiO}_x \text{C}_y$), silicon nitride
($\text{Si}_3 \text{N}_4$), silicon
carbonitride ($\text{Si}_{3+x} \text{N}_4 \text{C}_{x+y}$) [1]
and silicon
oxynitride ($\text{SiO}_x \text{N}_y$). [2]

*Polymer derived
ceramics -
Wikipedia*

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polymer-derived
ceramic This
hinders the closure
of micro-and
mesopores,
providing escaping
channels for the
gaseous
thermolysis
products, leaving
behind a porous
ceramic phase
after the polymer
-to ceramic

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Therefore, the ...

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nuclear
Polymer

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*Polymer Derived
Ceramics Theory
And Applications*

Theory And
Applications

Polymer-derived
ceramics are a
class of ceramics
obtained by
pyrolysis (thermal
decomposition) of
polymer
precursors. For
example,

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polycarbosilanes
and polysiloxanes
transform through
pyrolysis to silicon
carbide and silicon
oxycarbide-type
ceramics,
respectively.

Compared to
powder-based
methods of
ceramic
fabrication, use of
preceramic

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Polymer allows
fabrication of
dense ceramics in
near net shape
without sintering.

Applications

*A hu'gel'y
promising method:
Support bath
simplifies ...*

What are Polymer-
derived Ceramics?
These are high
temperature silicon-

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based covalent
ceramics obtained
from thermal
decomposition (or
pyrolysis) of
certain organo-
silicon polymers.

These ceramics are
known for their
nano-domain
structure that
remains
amorphous up to
very high

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temperatures
(>1200 degree C).

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CERAMIC FIBERS*

The book titled
Polymer Derived
Ceramics: Theory
and Applications,
edited by P.
Colombo, G.D.
Soraru, R. Riedel
and H.-J. Kleebe

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and published by
DEStech
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comes at exactly
the right moment,
in that in recent
years the field has
experienced an
explosive growth
and fast
development and,
for the first time,
the synthesis,
microstructure,

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properties,
processing and
applications
aspects are drawn
together And
comprehensively in
a single
publication.

*Polymer Derived
Ceramics: Theory
and Applications:
Edited ...*

It covers all the

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main aspects of interdisciplinary research and development in the field of Polymer-Derived-Ceramics, from the precursor synthesis and characteristics to the polymer-to-ceramic conversion, from processing and shaping of

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preceramic
polymers into
ceramic
components to
their
microstructure at
the nano- and
micro-scale, from
their properties to
their most relevant
applications in
different fields.

Advances in
Page 30/35

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*Polymer Derived
Ceramics and
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Here, a composite made of ultrahigh-temperature ceramic- and polymer-derived SiOC ceramic (PDC-SiOC) with high EMI shielding was reported for such applications. A total EMI shielding

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efficiency (SE T) of 26.67 dB with a thickness of 0.6 mm at the Ka-band (26.5–40 GHz) was reported for ZrB₂ fabricated by spark plasma sintering, which showed reflection-dominant shielding.

*Ultrahigh-
Temperature Cera*

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*mic-Polymer-
Derived SiOC
Ceramic ...*

Deepa Devapal, K.

J. Sreejith, B.

Swaminathan,

Srinivas

Chinthalapalli, S.

Bhuvaneshwari, S.

Packirisamy,

Influence of Heat

Treatment

Temperature on

the Microstructure

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Evolution of Poly(vinylborosiloxane)
Derived Ceramics,
Journal of Inorganic
and Organometallic
Polymers and
Materials, 10.1007/
s10904-020-01457-
1, (2020).

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Ceramics
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