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anaerobic batch
reactor was
performed to evaluate

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quantitatively the
effect of substrate
characteristics on the
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degradation of
organic waste. The
kinetic behavior of
anaerobic
degradation was
described as a first
order series reaction
that is a consecutive
reaction of
acidogenic- and meth

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The model developed solves the mass and energy balance of waste decay, which computes the rate of gas generation, change of gas and gas

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flux through the
system. This study
focuses on anaerobic
phase of
biodegradation of
biomass and the
degradation of the
biomass was assumed
to follow first order
kinetics.

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Model for Anaerobic
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Kinetic models of anaerobic digestion (AD) are widely applied to soluble and particulate substrates, but have not been systematically evaluated for bioplastics. Here, five models are evaluated to determine their suitability for modeling of anaerobic

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biodegradation of the
bioplastic poly
(hydroxybutyrate- co
-hydroxyvalerate)
(PHBV): (1) first-order
kinetics with and
without a lag phase,
(2) two-step first-
order, (3) Monod (4)
Contois, and (5)
Gompertz.

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for anaerobic~~

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biodegradation of a ...

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Isothermal experiments in the temperature range of 70–95C were utilized to determine

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For the kinetics of
ascorbic acid loss in
the pulp during
heating under
anaerobic
circumstances.

Changes in ascorbic
acid decomposition
followed a
first order reaction.

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OF ANAEROBIC
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Abstract This work
investigated the
anaerobic

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degradation of the
model azo dye
Remazol Yellow Gold
RNL in an upflow
anaerobic sludge
blanket reactor
(UASB) and two
submerged anaerobic
membrane (SAMBR)
bioreactors, one of
which (SAMBR-1) was
operated with
powdered activated
carbon (PAC) in its

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degradation of PCE
using the RT3D
model. Since the flow
model used in this
simulation is the
same as the flow
model used in RT3D
– Instantaneous
Aerobic Degradation,
the steps involved in
building the flow
model will not be
described in this
tutorial.

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biological and
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Acidogenesis
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Methanogenesis.

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In 1906, Karl Imhoff

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Created the Imhoff tank; an early form of anaerobic digester and model

wastewater treatment system throughout the early 20th century. After 1920, closed tank systems began to replace the previously common use of anaerobic lagoons – covered earthen basins used

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A small number of so-called “intra-aerobic” anaerobic bacteria generate O_2 from anaerobic electron acceptors,

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with hydrocarbons
degraded via
standard mono- or
dioxygenases, but
examples of truly
anaerobic
degradation pathways
are known for all
types of
hydrocarbons, even
those with the highest
C–H dissociation
energies. The topic of

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this review is these
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used by hydrocarbon-
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degrading bacteria
that cannot generate
reactive oxygen ...

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Mechanisms of ...
Data on the influence
of substrate

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peptone in a bench-
scale packed-bed
reactor are presented
and discussed. The
experiments were
conducted in a...

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Protein: Simplified
Kinetic ...~~

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In this study, we present a first laboratory model for anaerobic degradation of SQ by bacterial consortia in two tiers to acetate and hydrogen sulfide (H_2S). For the first tier, SQ-degrading *Escherichia coli* K-12 was used. It catalyzes the fermentation of SQ to 2,3-dihydroxyp

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ropane-1-sulfonate
(DHPS), succinate,
acetate and formate,
thus, a novel type of
mixed-acid
fermentation.

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Plant Sugar
Sulfoquinovose ...
The mechanisms for
DHPS degradation in
the anaerobic

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well understood.
Here, we report the
bioinformatics-aided
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two O₂-sensitive
glycyl radical
enzymes that use
distinct radical-
mediated mechanisms
for DHPS degradation

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in anaerobic bacteria
from diverse
terrestrial and marine
sources as well as
human gut.

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dependent
mechanisms for
anaerobic
degradation ...

Elevated levels of
methane indicate
fermentation is

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occurring in a highly
anaerobic
environment and that
reducing conditions
are appropriate for
anaerobic
degradation. For
chlorinated aliphatic
hydrocarbons (CAHs)
elevated levels of
ethene and ethane (at
least an order of
magnitude greater
than background

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Bioremediation
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degradation of
proteins is reported
to be slower
compared to
degradation of other

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biopolymers [14][15]
[16][17][18]. For
example,
carbohydrates are
considered to be
favourable acidified ...

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degradation in
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The significance of
the surface area in
anaerobic
degradation of

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particulate substrates
was investigated
through a kinetic
model where the
hydrolysis rate was
based on the sample
surface area. Good
agreements were
obtained between
model and
experiments carried
out with samples of
various specific
surface areas.

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degradation of
organic
materials—significanc
e...

The reaction being simulated is anaerobic PCE dechlorination with sequential, first-order, degradation kinetics. Degradation of PCE all the way to

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VC is assumed to be
anaerobically
favorable and the
degradation kinetics
are assumed to be
first order in nature.

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The best known
Anaerobic Digestion
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Computer Analysis is that produced by the IWA. The purpose of Mathematical

Computational

Analysis to provide an Anaerobic Digestion Model, is to provide a basis for anaerobic digestion modelling.

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