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El almacenamiento es imprescindible para acometer con éxito la transición ecológica, puesto que dota al sistema eléctrico de mayor flexibilidad, seguridad y le permite maximizar la integración renovable

Un condensador eléctrico de doble capa de alta capacitancia (20) que tiene: - una carcasa (30), 5-una primera pluralidad de primeros electrodos (22), - una segunda pluralidad de segundos...

Inicialmente, se interpretará y analizará de forma exhaustiva la tecnología de almacenamiento electroquímico de energía a partir de sus ventajas e inconvenientes, escenarios de uso, vías

Después de repasar los principales sistemas mecánicos para el almacenamiento de energía, es el momento de ocuparnos de los sistemas de naturaleza electroquímica.

El almacenamiento electroquímico de energía se refiere a la tecnología y las medidas de almacenamiento de energía que utilizan baterías químicas para almacenar energía eléctrica y

1. Denominación de la asignatura: Titulación 7. Requisitos de formación previos para cursar la asignatura: 11. Metodología de enseñanza y aprendizaje y su relación con las competencias que debe adquirir el estudiante: 13. Recursos de aprendizaje y apoyo tutorial: Los profesores entregarán materiales para poder preparar todas las clases antes de su inicio. De este modo los alumnos podrán trabajarlos de forma autónoma antes de asistir a las clases teóricas, que se utilizarán para aclarar, completar, discutir y comentar todos los aspectos que los alumnos y/o profesores consideren más adecuados. Así mismo, se p... Ver más en web.ua.es/iacfm

.iacf_head{display:flex;align-items:center;gap:var(--smtc-gap-between-content-small);text-decoration-color:var(--smtc-foreground-content-neutral-primary);box-sizing:border-box;margin-bottom:var(--smtc-gap-between-content-x-small)}.iacfm .iacf_head span{flex:1 1 0;white-space:nowrap;text-overflow:ellipsis;overflow:hidden;color:var(--smtc-foreground-content-neutral-primary);font:var(--bing-smtc-text-global-body3-strong)}.iacfm .iacf_head

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n-self:stretch;padding:0 var(--smtc-gap-between-content-xx-small);overflow:hidden)#b_content
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.svgpath{fill:var(--bing-smtc-foreground-content-brand-rest)}#b_content .acflmgAns
.iachevron,#b_content .acflmgAns
.svgicon{width:12px;height:12px;margin-left:0;position:relative;top:0}html[dir=rtl] #b_content
.acflmgAns .iachevron,html[dir=rtl] #b_content .acflmgAns .svgicon{transform:scaleX(-1)}#b_content
.acflmgAns .rel_ent_w a.rel_ent{border:1px solid var(--smtc-stroke-ctrl-on-neutral-rest)}#b_content
.acflmgAns .iaheader
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.iacfic.mmkiaacf{overflow:visible;padding:0}#b_content .iacfic.mmkiaacf
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#b_content .iacfic.mmkiaacf .iacf_crsldata-wptds-carousel]
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svg{transform:scaleX(-1)}#b_content .iacfic.mmkiaacf .iacf_crsldata-wptds-carousel]
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button:active{background:var(--smtc-background-card-on-primary-default-pressed)}#b_content
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.iacfimgc{margin:auto}#b_content .b_ans.b_imgansacf{padding:0!important}#b_content
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0;display:flex;align-items:center;box-sizing:border-box}#b_content .acflmgAns .iaheader
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span{text-decoration:underline}#b_content .acflmgAns .iaheader .iacf_head:hover
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div{display:flex;align-items:center;transition:background 300ms
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.acflmgAns .rel_ent_w .btn.rounded{top:initial;margin-top:1px}#b_content .acflmgAns .rel_ent_w
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.cr>div{width:36px;height:38px;border-radius:var(--smtc-corner-ctrl-lg-rest);background:var(--bing-smtc-background-container);box-shadow:var(--bing-smtc-shadows-card-hover-3);border:initial}#b_content
.acflmgAns .rel_ent_w .cr>div:after{margin-inline-start:2px;top:0}#b_content .acflmgAns
.rel_ent_w .b_viewport{padding-top:0;margin-left:0;padding-left:0}#b_content .acflmgAns .rel_ent_w
.b_viewport
.slide{height:38px;margin-left:0;margin-inline-end:var(--smtc-gap-between-content-x-small)}#b_content
ent .acflmgAns .rel_ent_w
a.rel_ent{border-radius:var(--smtc-corner-circular);background:var(--smtc-background-card-on-primary-default-rest);padding-left:0;height:38px}#b_content .acflmgAns .rel_ent_w
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.rel_ent_w a.rel_ent:active{background:var(--smtc-background-ctrl-outline-pressed)}#b_content
.acflmgAns .rel_ent_w .cico{margin:var(--smtc-gap-between-content-xx-small)
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var(--smtc-gap-between-content-xx-small)}#b_content .acflmgAns .rel_ent_w
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.iacf_crsl[data-wptds-carousel] [data-direction="end"]{transform:scaleX(-1)}html[dir=rtl] #b_content
.acflmgAns .iacf_crsl[data-wptds-carousel] [data-direction="start"]{transform:scaleX(-1)}.iacfm
.iacfmit a:focus .isp_imgcont img,.iacfm .iacfmit a:focus .iacfimgc img,.iacfm .iacfmit a:focus
.iacf_smol{outline:3px dotted #1aebff;outline-offset:-5px}.iacfm .iacfmit .cico{position:relative}.iacfm
.iacfmit
.cico::after{content:"";position:absolute;left:0;top:0;width:100%;height:100%;background:rgba(0,0,0,.
03)}.gs_card .iacfmit img,.b_wpt_container .iacfmit img,.b_acf_card .iacfmit img{transition:transform
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idden;border-radius:inherit}.iacf_plan{position:relative}.iacfmit
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.cico{border-radius:0}.iacfca{padding:var(--mai-smtc-padding-card-default);box-sizing:border-box;ov
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.iacfmit{overflow:hidden;position:relative}.iacfca .iacf_crsl .iacfmit
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[data-wptds-carousel][data-default][data-variant="Normal"] [data-wptds-carousel-scroll-container]
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[data-wptds-carousel][data-default]
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.iacf_pag{position:absolute;bottom:8px;left:50%;transform:translate(-50%,0)}.cards.large
.iacfca{height:200px}[dir="rtl"] .iacfca .iacf_pag{transform:translate(50%,0)}.iacfm.iacfca
.iacf_crsl[data-wptds-carousel]
[data-wptds-carousel-control]{background:var(--bing-smtc-background-ctrl-neutral-rest);border:0;hei
ght:56px;width:16px;transition:width .3s;background
.3s;color:var(--smtc-foreground-ctrl-neutral-primary-hover)}.iacfm.iacfca
```

```
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mai-smtc-foreground-ctrl-on-image-rest)}.iacfm.iacfca.iacf_fb .iacf_crsl[data-wptds-carousel]
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.iacf_colg_crsl
.cico{border-radius:0}.iacfca:not(.iacfh):has(>.iacf_colg_crsl){height:100%;width:100%;padding:0;ov
erflow:hidden;border-radius:inherit}.iacfca:not(.iacfh):has(>.iacf_colg_crsl)
.iacfmit{border-radius:0}.iacfca:not(.iacfh):has(>.iacf_colg_crsl) [data-wptds-carousel][data-default]
[data-wptds-carousel-controls]{inline-size:calc(100% + var(--wptds-carousel-control-size) -
var(--mai-smtc-padding-card-default)*2);transform:translateX(calc(0rem +
var(--mai-smtc-padding-card-default) - (var(--wptds-carousel-control-size)/2)))
translateY(-50%)}[data-wptds-carousel][data-default],[data-wptds-carousel][data-default]::before,[dat
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][data-default] [data-visually-hidden]{block-size:.0625rem;border:0;clip:rect(0 0 0
0);inline-size:.0625rem;margin:-.0625rem;overflow:hidden;padding:0;position:absolute}[data-wptds-c
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rgba(0,0,0,.1);--wptds-carousel-control-fg-color:#767676;--wptds-carousel-control-size:2rem;display:
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ze:100%;-ms-overflow-style:none;scrollbar-width:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-scroll-container]::-webkit-scrollbar{display:none}[data-wptds-carousel][data-def
ault]
```

```
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[data-wptds-carousel-list]{display:flex;gap:.5rem;list-style:none;block-size:100%}[data-wptds-carousel][data-default]
[data-wptds-carousel-list]>*{flex-grow:0;flex-shrink:0}[data-wptds-carousel][data-default]
[data-wptds-carousel-list]>:not([data-wptds-carousel-item]){display:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-item]{block-size:100%}[data-wptds-carousel][data-default]
[data-wptds-carousel-item]>*{block-size:100%}[data-wptds-carousel][data-default]
[data-wptds-carousel-item]>img{display:block;inline-size:auto}[data-wptds-carousel][data-default]
[data-wptds-carousel-controls]{list-style:none;position:absolute;inline-size:calc(100% + var(--wptds-carousel-control-size));inset-block-start:50%;transform:translateX(calc(0rem - (var(--wptds-carousel-control-size)/2))) translateY(-50%);display:flex;align-items:center;justify-content:space-between;pointer-events:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-controls]>*{flex-grow:0;flex-shrink:0}[data-wptds-carousel][data-default]
[data-wptds-carousel-control]{cursor:pointer;inline-size:var(--wptds-carousel-control-size);aspect-ratio:1;display:grid;place-content:center;border-radius:50%;background-color:var(--wptds-carousel-control-bg-color);border:.0625rem solid var(--wptds-carousel-control-border-color);box-shadow:var(--wptds-carousel-control-box-shadow);color:var(--wptds-carousel-control-fg-color);opacity:var(--wptds-carousel-control-opacity);pointer-events:all}[data-wptds-carousel][data-default]
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[data-wptds-carousel-control]:focus-visible{outline-color:Highlight;outline-color:-webkit-focus-ring-color;outline-offset:.0625rem;outline-style:auto;outline-width:.0625rem}[data-wptds-carousel][data-default]
[data-wptds-carousel-control] *{pointer-events:none}[data-wptds-carousel][data-default]
[data-wptds-carousel-control]>svg{display:block}[data-wptds-carousel][data-default]
[data-wptds-carousel-control][data-direction="start"]>svg{transform:scaleX(1)}[data-wptds-carousel][data-default]
[data-wptds-carousel-control][data-direction="end"]>svg{transform:scaleX(-1)}[data-wptds-carousel][data-default]
[data-wptds-carousel-control][aria-disabled="true"]{visibility:hidden;cursor:not-allowed}[data-wptds-carousel][data-default]
[data-wptds-carousel-announce]{block-size:.0625rem;border:0;clip:rect(0 0 0 0);inline-size:.0625rem;margin:-.0625rem;overflow:hidden;padding:0;position:absolute}[data-wptds-carousel][data-default][data-variant="Normal"],[data-wptds-carousel][data-default][data-variant="Full Width"]{--wptds-carousel-control-opacity:0}[data-wptds-carousel][data-default][data-variant="Normal"]:has([data-wptds-carousel-scroll-container]:focus-visible),[data-wptds-carousel][data-default][data-variant="Normal"]:has([data-wptds-carousel-control]:focus-visible),[data-wptds-carousel][data-default][data-variant="Full Width"]:has([data-wptds-carousel-scroll-container]:focus-visible),[data-wptds-carou
```

```
use]]][data-default]]][data-variant="FullWidth"]:has([data-wptds-carousel-control]:focus-visible){--wptds
-carousel-control-opacity:1}[data-wptds-carousel]][data-default]][data-variant="Normal"]][data-snap
[data-wptds-carousel-scroll-container]{scroll-snap-type:x
proximity}}[data-wptds-carousel]][data-default]][data-variant="Normal"]][data-snap]
[data-wptds-carousel-item]{scroll-snap-align:center;scroll-snap-stop:always}[data-wptds-carousel]][da
ta-default]][data-variant="Normal"]][data-snap]
[data-wptds-carousel-item]:first-of-type{scroll-snap-align:start}[data-wptds-carousel]][data-default]][dat
a-variant="Normal"]][data-snap]
[data-wptds-carousel-item]:last-of-type{scroll-snap-align:end}[data-wptds-carousel]][data-default]][dat
a-variant="FullWidth"]
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mandatory}[data-wptds-carousel]][data-default]][data-variant="FullWidth"]
[data-wptds-carousel-item]{inline-size:100%;scroll-snap-align:center;scroll-snap-stop:always}[data-w
ptds-carousel]][data-default]][data-variant="FullWidth"]
[data-wptds-carousel-item]:first-of-type{scroll-snap-align:start}[data-wptds-carousel]][data-default]][dat
a-variant="FullWidth"]
[data-wptds-carousel-item]:last-of-type{scroll-snap-align:end}[data-wptds-carousel]][data-default]][dat
a-variant="FullWidth"]
[data-wptds-carousel-item]>{*{inline-size:100%}[data-wptds-carousel]][data-default]][data-bleed-inline]
[data-wptds-carousel-controls]{--control-side-gap:.25rem;inline-size:calc(100%
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+
var(--control-side-gap)))
translateY(-50%)}[data-wptds-carousel]][data-desktop]
[data-wptds-carousel-control]:hover:not([aria-disabled="true"]):not(:active){--wptds-carousel-control-
bg-color:#fff;--wptds-carousel-control-border-color:#ddd;--wptds-carousel-control-box-shadow:0rem
.125rem
.3125rem
rgba(0,0,0,.14);--wptds-carousel-control-fg-color:#111}[data-wptds-carousel]][data-desktop]][data-vari
ant="Normal"]:has([data-wptds-carousel-scroll-container]:hover),[data-wptds-carousel]][data-desktop]
[data-variant="Normal"]:has([data-wptds-carousel-control]:hover),[data-wptds-carousel]][data-deskto
p][data-variant="FullWidth"]:has([data-wptds-carousel-scroll-container]:hover),[data-wptds-carousel]][
data-desktop][data-variant="FullWidth"]:has([data-wptds-carousel-control]:hover){--wptds-carousel-c
ontrol-opacity:1}[dir="rtl"]
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[data-wptds-carousel-controls]{transform:translateX(calc(0rem
+
(var(--wptds-carousel-control-size)/2)))
translateY(-50%)}[dir="rtl"]
[data-wptds-carousel]][data-default]
[data-wptds-carousel-control][data-direction="start"]>svg{transform:scaleX(-1)}[dir="rtl"]
[data-wptds-carousel]][data-default]
[data-wptds-carousel-control][data-direction="end"]>svg{transform:scaleX(1)}[dir="rtl"]
[data-wptds-carousel]][data-default][data-bleed-inline]
[data-wptds-carousel-controls]{transform:translateX(calc(0rem
-
var(--control-side-gap)))
translateY(-50%)}[data-wptds-carousel]][data-default],[b_drk
[data-wptds-carousel]][data-default]{--wptds-carousel-control-bg-color:#484644;--wptds-carousel-con
trol-border-color:#545250;--wptds-carousel-control-box-shadow:0rem
.125rem
.1875rem
```

Electroquímica de almacenamiento de energía 2971186Z Espacio

rgba(0,0,0,.1);--wptds-carousel-control-fg-color:#d2d0ce}.b_dark [data-wptds-carousel][data-default]
[data-wptds-carousel-control]:active,.b_drk [data-wptds-carousel][data-default]
[data-wptds-carousel-control]:active{--wptds-carousel-control-bg-color:#484644;--wptds-carousel-co
ntrol-border-color:#545250;--wptds-carousel-control-box-shadow:0rem .125rem .1875rem
rgba(0,0,0,.1);--wptds-carousel-control-fg-color:#d2d0ce}.b_dark
[data-wptds-carousel][data-desktop]
[data-wptds-carousel-control]:hover:not([aria-disabled="true"]):not(:active),.b_drk
[data-wptds-carousel][data-desktop]
[data-wptds-carousel-control]:hover:not([aria-disabled="true"]):not(:active){--wptds-carousel-control-
bg-color:#605e5c;--wptds-carousel-control-border-color:#545250;--wptds-carousel-control-box-shad
ow:0rem .125rem .3125rem rgba(0,0,0,.14);--wptds-carousel-control-fg-color:#faf9f8}.gs_card .iacfic
.iacfmit .iacfimgc,.gs_card .iacfic .iacfmit .cico,.b_wpt_container .iacfic .iacfmit
.iacfimgc,.b_wpt_container .iacfic .iacfmit
.cico{width:100%!important;height:100%!important;border-radius:0}.gs_card .iacfic .iacfmit.iacfstc
img,.gs_card .iacfic .iacfmit .iacfimgc img,.b_wpt_container .iacfic .iacfmit.iacfstc
img,.b_wpt_container .iacfic .iacfmit .iacfimgc
img{width:100%;height:100%;object-fit:cover}#slideexp2_570855 .slide { margin-right: 8px;
}#slideexp2_570855c .b_slidebar .slide { border-radius: 6px; }#slideexp2_570855 .slide:last-child {
margin-right: 1px; }#slideexp2_570855c { margin: -4px; } #slideexp2_570855c .b_viewport {
padding: 4px 1px 4px 1px; margin: 0 3px; } #slideexp2_570855c .b_slidebar .slide { box-shadow: 0 0
0 1px rgba(0, 0, 0, 0.05); -webkit-box-shadow: 0 0 0 1px rgba(0, 0, 0, 0.05); } #slideexp2_570855c
.b_slidebar .slide.see_more { box-shadow: 0 0 0 0px rgba(0, 0, 0, 0.00); -webkit-box-shadow: 0 0 0
0px rgba(0, 0, 0, 0.00); } #slideexp2_570855c .b_slidebar .slide.see_more .carousel_seemore {
border: 0px; }#slideexp2_570855c .b_slidebar .slide.see_more:hover { box-shadow: 0 0 0 0px
rgba(0, 0, 0, 0.00); -webkit-box-shadow: 0 0 0 0px rgba(0, 0, 0, 0.00); }Imágenes de electroquímica
de Almacenamiento de energía 2971186z EspacioAlmacenamiento De Energía
QuímicaAlmacenamiento De Energía Potencial EléctricoAlmacenamiento EnergéticoEnergía
Almacenada En Enlaces QuímicosAlmacenamiento De Energía SuperconductoresAlmacenamiento
De Energía AvanzadoAlmacenar Energía ElectricaAlmacenamiento De Energía A Gran
EscalaAlmacenamiento De Energía EléctricaAlmacenamiento Electroquímico | CIC
energiGUNE Cinco vías para soluções de armazenamento eletroquímico de energia ...Seminar:
Ingeniería electroquímica para el estudio de sistemas de ...¿Qué se necesita para iniciarse en la
electroquímica? - Macias Sensors¿Cómo almacenar energía? Sistemas químicos (3) -
eointeligenciaUnidad II: Eje : Electroquímica y almacenamiento de energía · · 2012-11 ...¿Cómo
almacenar energía? Sistemas electroquímicos (2) - eointeligenciaSistemas de almacenamiento de
energía eléctrica(PDF) Sistemas electroquímicos y nanotecnología para el almacenamiento ..
percondensadores en estaciones espaciales: la clave para almacenar ...Ver todoUPV/EHUNuevos
materiales para el almacenamiento de energía electroquímica ...La investigación sobre nuevas
tecnologías de almacenamiento de energía, tanto en aplicaciones portátiles como estacionarias, se
ha convertido en una necesidad urgente en la transición del

Electroquímica de almacenamiento de energía 2971186Z Espacio

En esta asignatura se impartirán conocimientos sobre los principales sistemas electroquímicos de conversión y almacenamiento de energía. Batería y Celdas de Combustible.

La investigación sobre nuevas tecnologías de almacenamiento de energía, tanto en aplicaciones portátiles como estacionarias, se ha convertido en una necesidad urgente en la transición del

Comprender los principios fundamentales electroquímicos del almacenamiento de energía en baterías. Ser capaz de elegir el mejor tipo de almacenamiento de energía para una aplicación específica.

Lideramos la investigación en materiales y sistemas para el almacenamiento de energía térmica y electroquímica, aplicando los resultados en el mercado y contribuyendo a la competitividad de las

Evaluación de tecnologías electroquímicas de almacenamiento de energía eléctrica en bancos de ensayo (ion Li y metal aire) y en microrred con energías renovables (sistema híbrido baterías

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