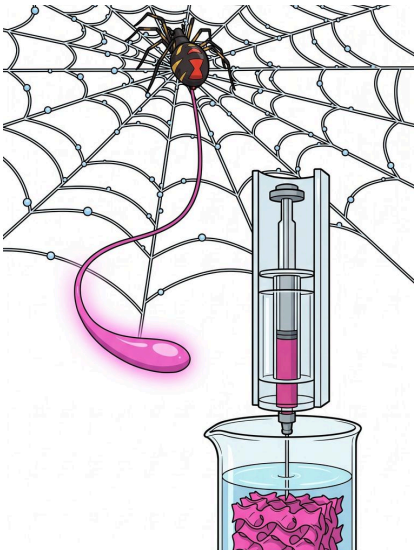
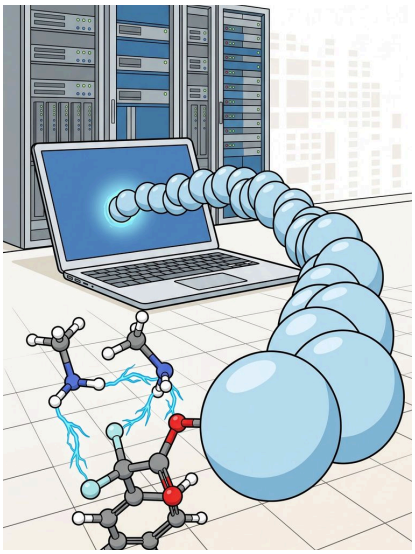


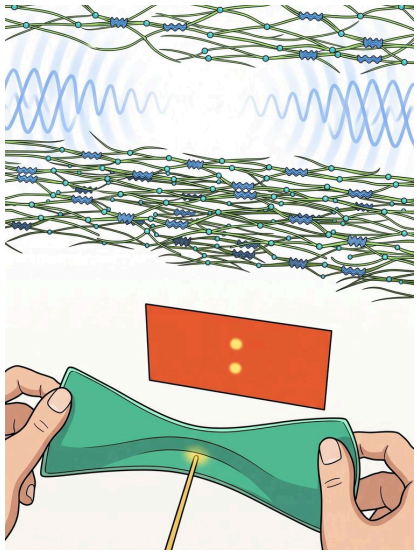
BIOMACROMOLECULES · 2024 · 25 (2)

POLYMAT PLAY **AH**



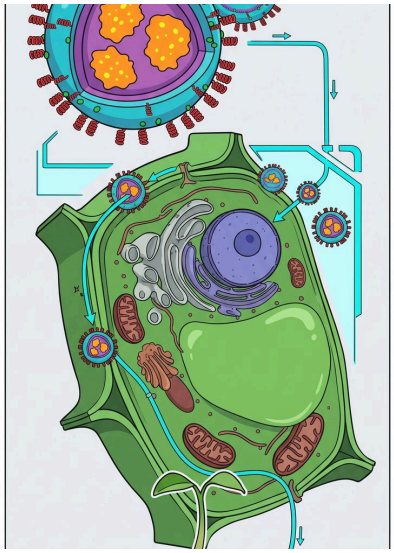
MACROMOLECULES · 2021 · 54 (1)

POLYMAT PLAY **BO**



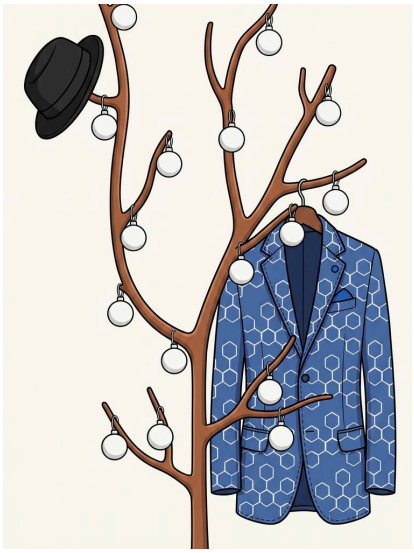
MACROMOLECULES · 2024 · 57 (4)

POLYMAT PLAY **DW**



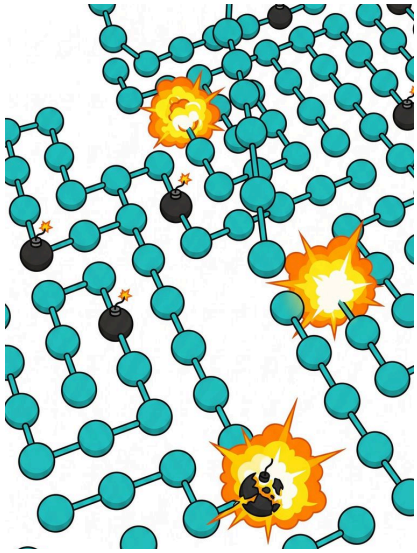
BIOMACROMOLECULES · 2021 · 22 (3)

POLYMAT PLAY **FM**



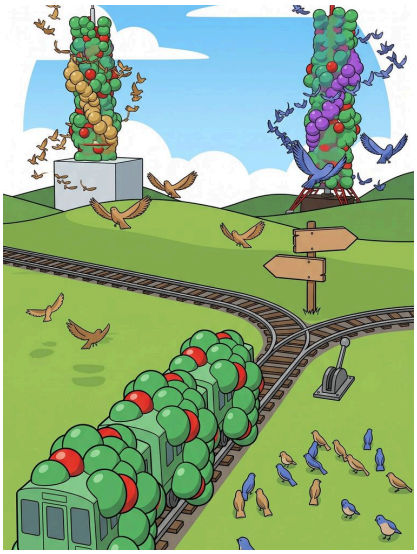
CHEM. SCI. · 2022 · 13 (20)

POLYMAT PLAY **FV**



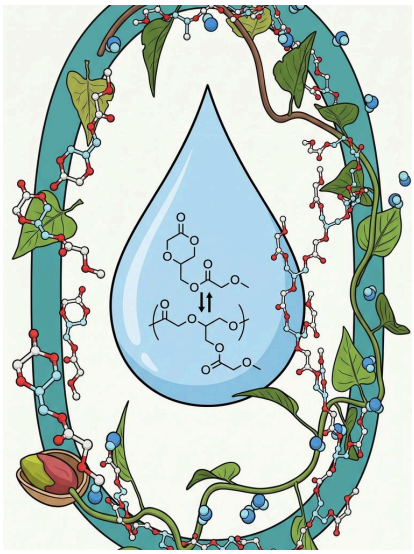
ACS MACRO LETT. · 2021 · 10 (12)

POLYMAT PLAY **FZ**



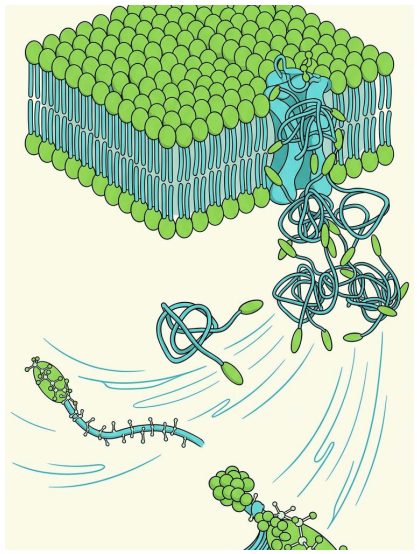
CHEM. SCI. · 2021 · 12 (10)

POLYMAT PLAY **GZ**



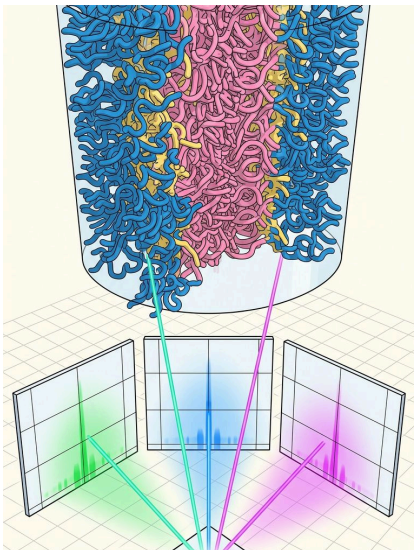
MACROMOL. CHEM. PHYS. · 2022 · 223 (20)

POLYMAT PLAY **JZ**



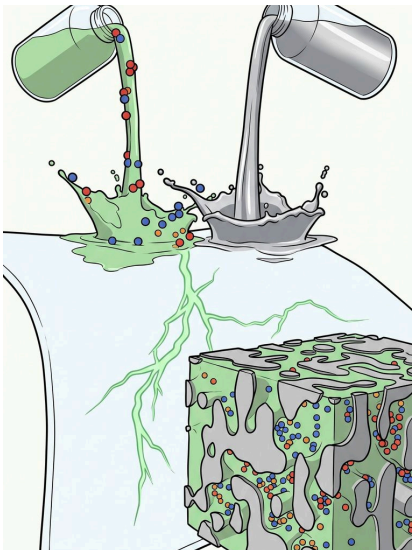
MACROMOLECULES · 2025 · 58 (14)

POLYMAT PLAY **KD**



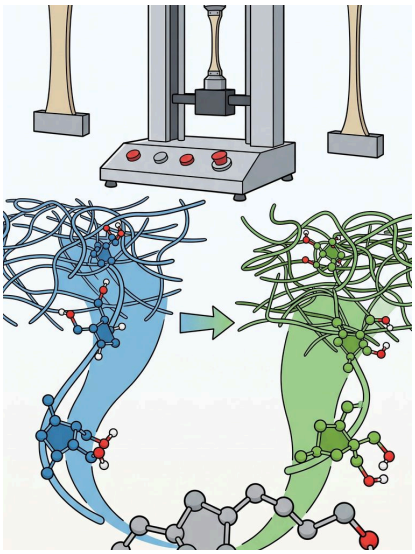
MACROMOLECULES · 2021 · 54 (1)

POLYMAT PLAY **LS**



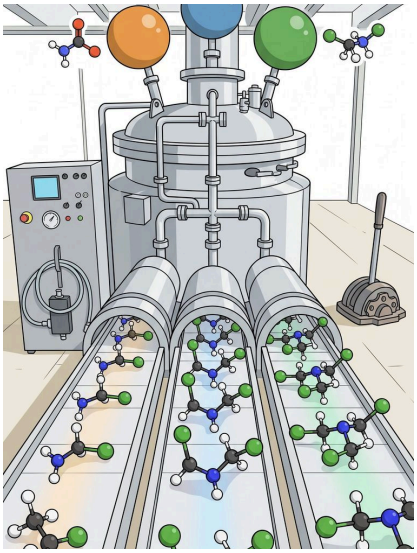
MACROMOL. CHEM. PHYS. · 2022 · 223 (8)

POLYMAT PLAY **ME**



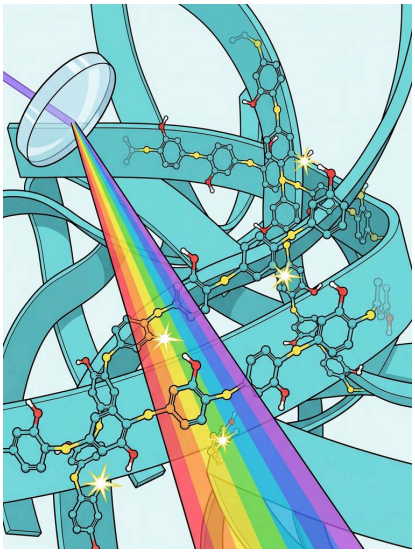
POLYM. CHEM. · 2024 · 15 (39)

POLYMAT PLAY **MV**



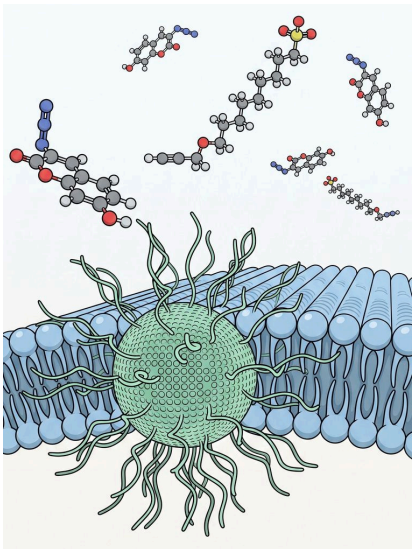
CHEMSUSCHEM · 2022 · 15 (2)

POLYMAT PLAY **NW**



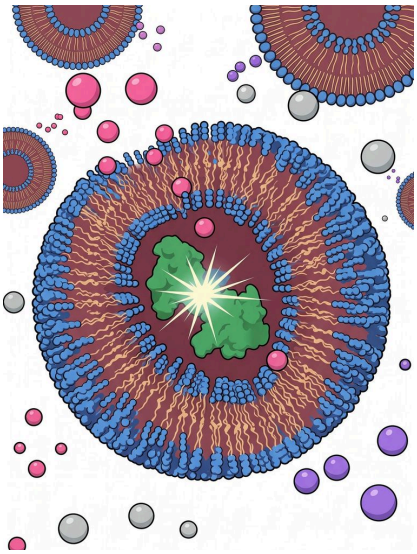
MACROMOLECULES · 2022 · 55 (6)

POLYMAT PLAY **OH**



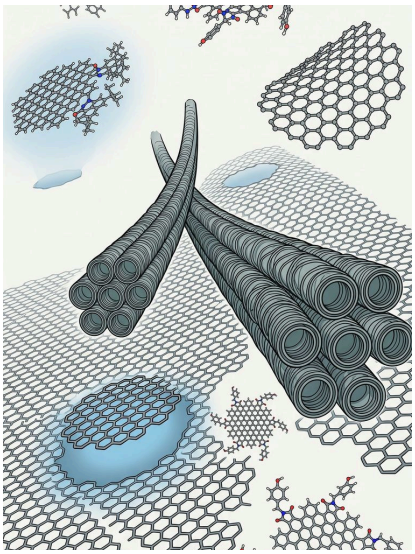
J. AM. CHEM. SOC. · 2023 · 145 (2)

POLYMAT PLAY **PU**



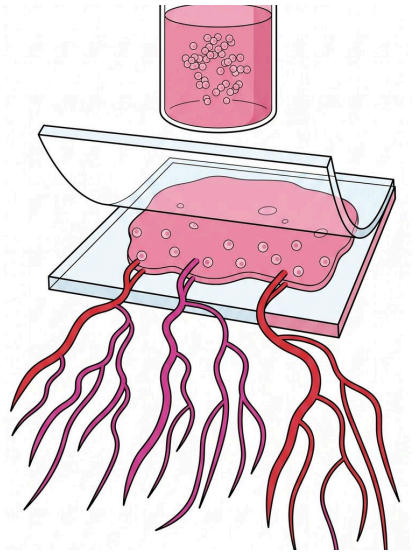
BIOMACROMOLECULES · 2021 · 22 (7)

POLYMAT PLAY **RL**



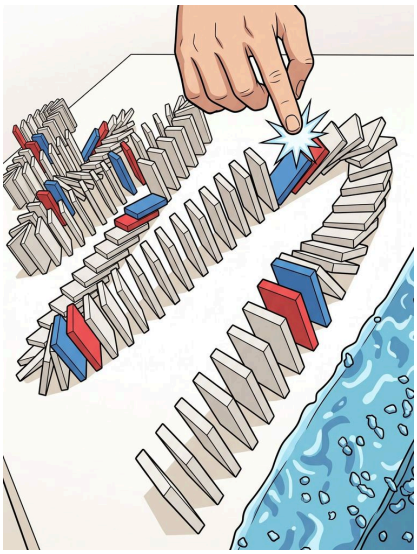
ANGEW. CHEM. INT. ED. · 2021 · 60 (23)

POLYMAT PLAY **UJ**



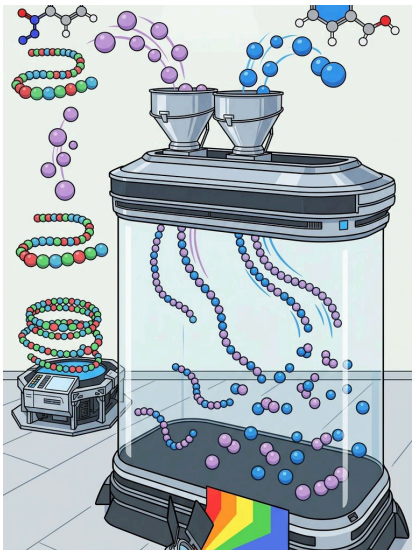
MACROMOL. BIOSCI. · 2023 · 23 (9)

POLYMAT PLAY **UR**



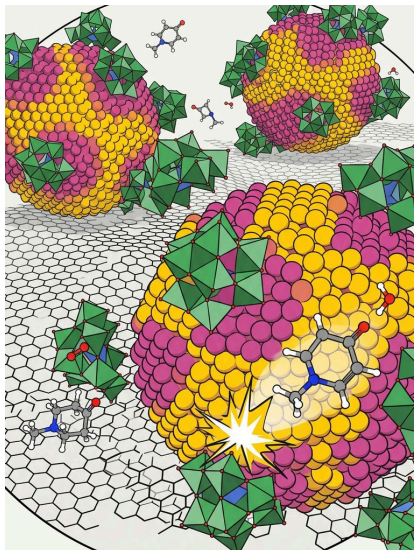
ACS MACRO LETT. · 2024 · 13 (8)

POLYMAT PLAY **VA**



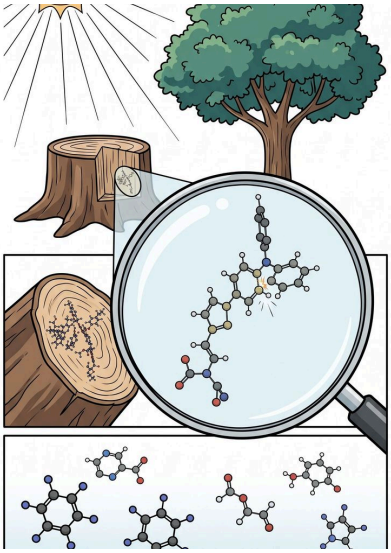
MACROMOLECULES · 2025 · 58 (5)

POLYMAT PLAY **WC**



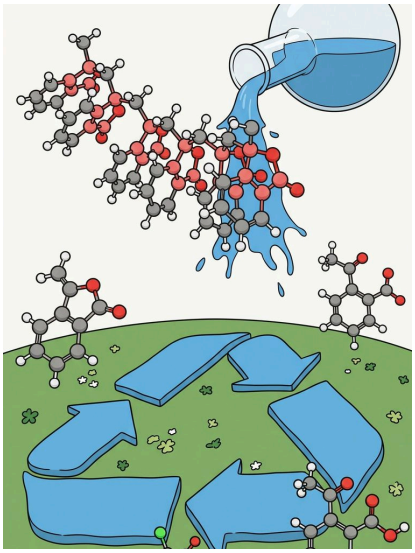
ANGEW. CHEM. INT. ED. · 2022 · 61 (34)

POLYMAT PLAY **XW**



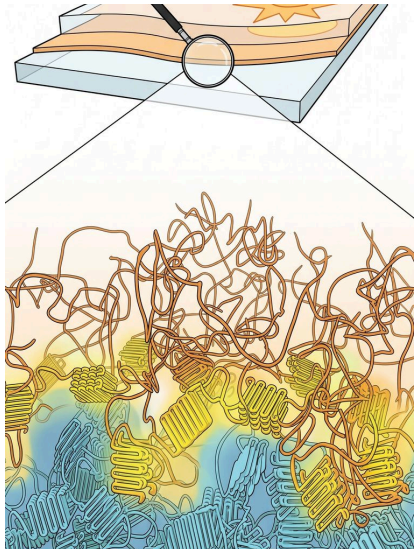
SUSTAINABLE ENERGY FUELS · 2023 · 7 (10)

POLYMAT PLAY **YB**



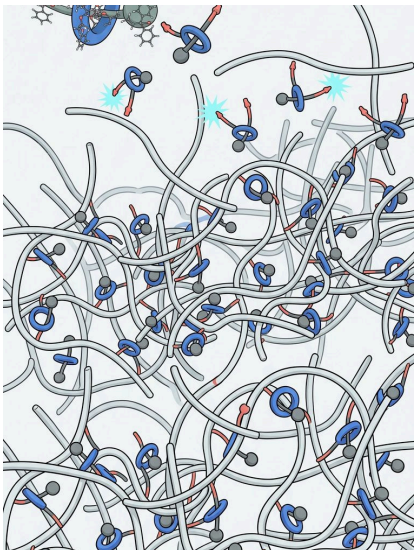
ACS MACRO LETT. · 2023 · 12 (12)

POLYMAT PLAY **YL**



MACROMOLECULES · 2021 · 54 (15)

POLYMAT PLAY **YM**



MACROMOL. RAPID COMMUN. · 2021 · 42 (7)

POLYMAT PLAY **ZG**

ARTICLE

Metal-Catalyzed Switching Degradation of Vinyl Polymers via Introduction of an “In-Chain” Carbon–Halogen Bond as the Trigger

Kimura, T. et al.

POLYMAT PLAY 04

ARTICLE

Controllable Photo-degradability on Polyurethane from AB-Type Monomers

Reeb, J. et al.

POLYMAT PLAY 05

ARTICLE

Fluoroalkyl Chain End Groups Regulating Crystal/Amorphous Interfaces of Semicrystalline Polyethylene Films

Tashiro, K. et al.

POLYMAT PLAY 08

ARTICLE

Supported Anionic Gold Nanoparticle Catalysts Modified Using Highly Negatively Charged Multivacant Polyoxometalates

Xia, K. et al.

POLYMAT PLAY 15

ARTICLE

Designing Ultrahigh-Refractive-Index Amorphous Poly(phenylene sulfide)s Based on Dense Intermolecular Hydrogen-Bond Networks

Watanabe, S. & Oyaizu, K.

POLYMAT PLAY 16

ARTICLE

Highly Selective Hydrogenative Conversion of Nitriles into Tertiary, Secondary, and Primary Amines under Flow Reaction Conditions

Yamada, T. et al.

POLYMAT PLAY 25

ARTICLE

A quasi-stable molybdenum sub-oxide with abundant oxygen vacancies that promotes CO2 hydrogenation to methanol

Kuwahara, Y. et al.

POLYMAT PLAY 28

ARTICLE

A minor difference in the hydrogen-bonding group structure has a major impact on the mechanical properties of polymers

Ishizaka, S. et al.

POLYMAT PLAY 29

ARTICLE

Solar energy driven C–C bond cleavage in a lignin model compound with a D–π–A organic dye-sensitized photoanode

Kim, S. et al.

POLYMAT PLAY 31

ARTICLE

Computer-Aided Design of Postpolymerization Modification Reaction Based on Aminolysis of α,α-Difluoroacetate Esters

Kakuchi, R. et al.

POLYMAT PLAY 32

ARTICLE

Self-Assembly of Nanographenes

Matsumoto, I. et al.

POLYMAT PLAY 33

ARTICLE

Fast and Selective Main-Chain Scission of Vinyl Polymers Using the Domino Reaction in the Alternating Sequence for Transesterification

Kohsaka, Y. et al.

POLYMAT PLAY 44

ARTICLE

Analysis of Homopolymer Distribution in a Polymer Blend Thin Film by Anomalous Grazing Incidence Small-Angle X-ray Scattering at the Bromine K-Edge

Hamamoto, H. et al.

POLYMAT PLAY 49

ARTICLE

Dynamics of Nanocomposite Hydrogel Alignment during 3D Printing to Develop Tissue Engineering Technology

Yu, H. et al.

POLYMAT PLAY 58

ARTICLE

Analyses of the Adhesion Interphase of Isotactic Polypropylene Using Hot-Melt Polyolefin Adhesives

Matsumoto, T. et al.

POLYMAT PLAY 61

ARTICLE

Poly-phenylene jacketed tailor-made dendritic phenylazomethine ligand for nanoparticle synthesis

Albrecht, K. et al.

POLYMAT PLAY 69

ARTICLE

Chemically Recyclable Vinyl Polymers by Free Radical Polymerization of Cyclic Styrene Derivatives

Chiba, Y. et al.

POLYMAT PLAY 70

ARTICLE

Tracking Ultrafast Structural Dynamics by Time-Domain Raman Spectroscopy

Kuramochi, H. & Tahara, T.

POLYMAT PLAY 72

ARTICLE

Thermoresponsive Carbohydrate-b-Polypeptoid Polymer Vesicles with Selective Solute Permeability and Permeable Factors for Solutes

Okuno, Y. et al.

POLYMAT PLAY 76

ARTICLE

Peptide-Based Polyion Complex Vesicles That Deliver Enzymes into Intact Plants To Provide Antibiotic Resistance without Genetic Modification

Fujita, S. et al.

POLYMAT PLAY 80

ARTICLE

Polydioxanone Derivative Bearing Methoxy Groups toward Bio-Functional Degradable Polymers Exhibiting Hydration-Driven Biocompatibility

Fukushima, K. et al.

POLYMAT PLAY 81

ARTICLE

Simple, Rapid, and Large-Scale Fabrication of Multi-Branched Hydrogels Based on Viscous Fingering for Cell Culture Applications

Utagawa, Y. et al.

POLYMAT PLAY 82

ARTICLE

A Membrane-Embedded Macromolecular Catalyst with Substrate Selectivity in Live Cells

Deng, Y. et al.

POLYMAT PLAY 86

ARTICLE

Strain-Induced Crystallization in Tetra-Branched Poly(ethylene glycol) Hydrogels with a Common Network Structure

Hashimoto, K. et al.

POLYMAT PLAY 87

ARTICLE

Liquid Metal–Ionic Liquid Composite Gels for Soft, Mixed Electronic–Ionic Conductors

Asada, J. et al.

POLYMAT PLAY 88

ARTICLE

Rotaxane-Based Difunctional Nitrile N-Oxide Crosslinker: Synthesis and Direct Introduction of Movable Crosslinking Points into Ethylene-Propylene-Butadie ne Monomer (EPDM) Rubber

Sogawa, H. et al.

POLYMAT PLAY 92

ARTICLE

Pre-regulation of the planar chirality of pillar[5]arenes for preparing discrete chiral nanotubes

Fa, S. et al.

POLYMAT PLAY 94

RULES

What do you read?

Find the article title that belongs to each cover.

1. Lay out all 52 cards face up: 25 covers marked with two letters and 27 article titles marked with two numbers.
2. Two of the titles belong to no cover, so the last pairs cannot be solved by elimination.
3. One player is the referee and keeps the ANSWER KEY card hidden.
4. On your turn, claim a pair out loud — a letter and a number: "GZ goes with 94".
5. The referee checks the key. Right: take both cards and claim again. Wrong: your turn ends.
6. The game ends when all 25 pairs are found. Whoever holds the most cards wins.
7. Shorter game: play with 12 pairs and one decoy. Harder game: a wrong claim costs you one card.

Play the digital version
`labur.eus/zerirakurri`

POLYMAT PLAY RULES

KEY

Answer key

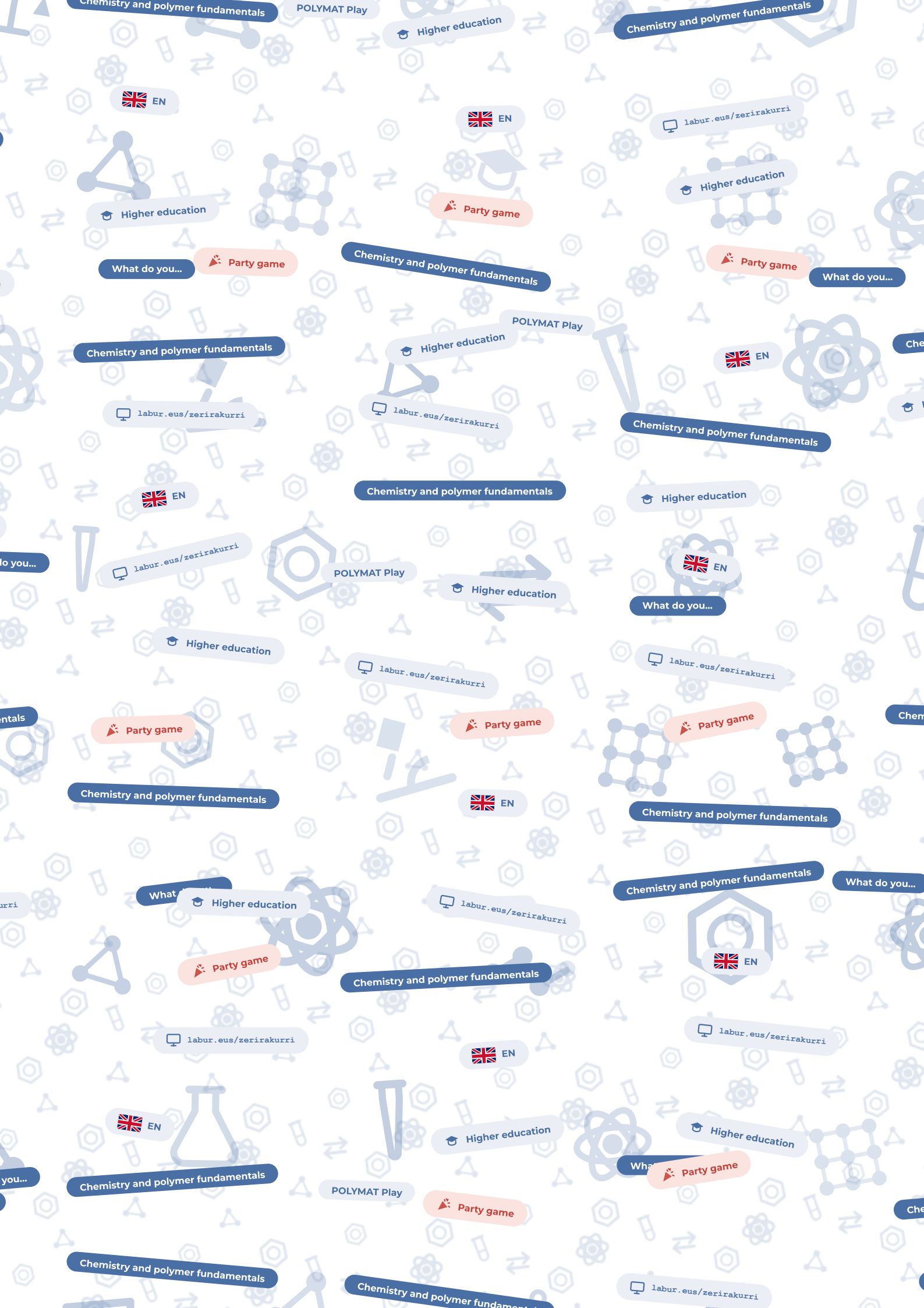
For the referee. Keep it hidden.

AH · 58	BO · 32	DW · 87
FM · 80	FV · 69	FZ · 04
GZ · 94	JZ · 81	KD · 08
LS · 49	ME · 88	MV · 29
NW · 25	OH · 16	PU · 86
RL · 76	UJ · 33	UR · 82
VA · 44	WC · 05	XW · 15
YB · 31	YL · 70	YM · 61
ZG · 92		

72 and 28: no cover.

Covers: their publishers' and artists' (artistic, non-literal representations) · **Author:** Beñat Olave · POLYMAT Play · CC BY-NC-SA 4.0

POLYMAT PLAY KEY


Chemistry and polymer fundamentals
POLYMAT Play
Higher education
EN
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Party game
What do you...