Inspired the science of creativity Full PDF


TIME the Science of Creativity 2018-08-03

from ancient drawings to the genius of leonardo and einstein to the imagination that colors our everyday life the drive to create innovate and make something new is a big part of what makes us human explore this and more in this new special edition from time the science of creativity

Multidisciplinary Contributions to the Science of Creative Thinking 2015-07-30

this book offers a multidisciplinary and multi domain approach to the most recent research results in the field of creative thinking and creativity authored by renowned international experts by presenting contributions from different scientific and artistic domains the book offers a comprehensive description of the state of the art on creativity research specifically the chapters are organized into four parts 1 theoretical aspects of creativity 2 social aspects of creativity 3 creativity in design and engineering 4 creativity in art and science in this way the book becomes a necessary platform for generative dialogue between disciplines that are typically divided by separating walls

Explaining Creativity 2024-01-05

genius invention talent and of course creativity these words describe the highest levels of human performance when we re engaged in the act of
being creative we feel we are performing at the peak of our abilities creative works give us insight and enrich our lives creativity is part of what makes us human our nearest relatives chimpanzees and other primates are often quite intelligent but never reach these high levels of performance

The Art and Science of Creativity 1965

explaining creativity is an accessible introduction to the latest scientific research on creativity the book summarizes and integrates a broad range of research in psychology and related scientific fields in the last 40 years psychologists anthropologists and sociologists have devoted increased attention to creativity we now know more about creativity than at any point in history explaining creativity considers not only arts like painting and writing but also science stage performance business innovation and creativity in everyday life sawyer s approach is interdisciplinary in addition to examining psychological studies on creativity he draws on anthropologists research on creativity in non western cultures sociologists research on the situations contexts and networks of creative activity and cognitive neuroscientists studies of the brain he moves beyond the individual to consider the social and cultural contexts of creativity including the role of collaboration in the creative process

Explaining Creativity 2011-10-15

first published in 2000 routledge is an imprint of taylor francis an informa company

Science, Order, and Creativity 2000

creativity was long thought to be a gift from the muses a special quality of a select minority of people fortunately more recent studies have debunked this belief and have shown promise for techniques to help us all boost our creative potential nature gives some people a genetic edge but nurture has a large role in developing creative genius in this ebook we look at this difficult to define quality from all angles where creativity comes from lessons we can learn from creative geniuses and how to cultivate creativity in the unleashed mind shelley carson writes that genetic variations may make some people more open to thoughts or ideas that get stuck in the average person s mental filters and these variations may also explain why creative people exhibit eccentric behavior or even suffer from mental illness on the nurture side dean keith simonton illustrates in the science of genius that training and exposure to unfamiliar ideas and experiences play essential roles in shaping creativity in your fertile brain at
work evangelia g chrysikou looks at how breaking down established ways of looking at the world and encouraging unconscious thought processes can increase creative potential several stories discuss the role of dreams and imagination including answers while you sleep in which deirdre barrett writes that thinking of specific dilemmas before bed increases the chances of dreaming a solution in let creativity soar scientific american editor in chief mariette dichristina and a panel of experts address other powerful techniques for cultivating creativity we hope that these techniques and this ebook as a whole will help unleash your own creative self

**Inspired! 2014-12-22**

this edited book will address creativity and innovation among the two cultures of science and art disciplines within science and art include medicine neurology music therapy art therapy physics chemistry engineering music improvisation education and aesthetics this book will be the first of its kind to appeal to a broad audience of students scholars scientists professionals practitioners physicians psychologists counsellors and social workers musicians artists educators and administrators in order to understand creativity and innovation across fields the approach is multidisciplinary while there is overlap across disciplines unique domain specific traits exist in each field and are also discussed in addition to similarities this book engages the reader with the comparison of similarities and differences through dialog across disciplines authors of each chapter address creativity and innovation from their own distinct perspective each chapter is transdisciplinary in approach these perspectives entail a representation of their field through research teaching service and or practice

**Creativity and Innovation Among Science and Art 2015-01-22**

this book explores education for juvenile offenders in relation to passages academy which is both similar to and representative of many school programs in juvenile correctional facilities examining the mission and population of this school contributes to an understanding of the ways in which the teachers think about and ultimately act with respect to their detained juveniles students and particularly illustrates how the tension between punishment and rehabilitation is played out in school policies and design by calling attention to the decisions that surround juvenile detention education the extant research concentrates on three main areas first the social political and pedagogical forces that determine who enters the juvenile justice systems second how these court involved youths are educated while they are in the system and third the practical problems and the social justice issues youths encountered when transitioning back to their community schools i hope i don t see you tomorrow is both heartwarming and heartbreaking its vast empathy for the students that l a gabay teaches is edifying while its unsparing examination of the forces that push youth into detention is soul shearing gabay is at once tocqueville and kozol he brilliantly guides us through the educational territory that is foreign to most of us even as he paints a searing portrait of teachers who shape lesson plans for students who must learn under impossible
conditions gabay s haunting and eloquent missive from the front lines of pain and possibility couldn t be more timely as the nation s first black 

president seeks to lessen the stigma of nonviolent ex offenders in our society gabay s book confronts the criminal justice system at its institutional 

roots in the economic misery and racial strife of schooling that compounds the suffering of poor youth as they are contained by a state that often 

only pays attention to them when they are in trouble gabay opens eyes and vexes minds with this stirring and sober account of what it means to 

teach those whom society has deemed utterly expendable michael eric dyson author of the black presidency barack obama and the politics of race 
in america as a beneficiary of lee gabay and his colleague s patience discipline and compassionate teaching at the school this timely book 

beautifully decrypts the pedagogical framework within the juvenile justice system as america comes to term with its zeal for incarceration 
policymakers educators government officials parents and advocates should take advantage of this carefully written book and use it as reflection 

and pause as we prepare our young court involved students towards adulthood jim st germain advisory counsel on president obama s taskforce on 
police community relations and mayor bloomberg s close to home initiative

Essays on Creativity in the Sciences 1963

creativity psychology and the history of science offers for the first time a comprehensive overview of the oeuvre of howard e gruber who is noted 

for his contributions both to the psychology of creativity and to the history of science the present book includes papers from a wide range of topics 
in the contributions to creativity research gruber proposes his key ideas for studying creative work gruber focuses on how the thinking motivation 

and affect of extraordinarily creative individuals evolve and how they interact over long periods of time gruber s approach bridges many disciplines 

and subdisciplines in psychology and beyond several of which are represented in the present volume cognitive psychology developmental 

psychology history of science aesthetics and politics the volume thus presents a unique and comprehensive contribution to our understanding of 

the creative process many of gruber s papers have not previously been easily accessible they are presented here in thoroughly revised form

The Art and Science of Creativity 1867

scientists are famous for believing in the proven and peer accepted the very ground that pioneering artists often subvert they recognize correct and 

incorrect where artists see only true and false and yet in some individuals crossover learning provides a remarkable kind of catalyst to innovation 

that sparks the passion curiosity and freedom to pursue and to realize challenging ideas in culture industry society and research this book is an 

attempt to show how innovation in the post google generation is often catalyzed by those who cross a conventional line so firmly drawn between 

the arts and the sciences david edwards describes how contemporary creators achieve breakthroughs in the arts and sciences by developing their 

ideas in an intermediate zone of human creativity where neither art nor science is easily defined these creators may innovate in culture as in the
development of new forms of music composition through use of chaos theory or perhaps through pioneering scientific investigation in the basement of the louvre they may innovate in research institutions society or industry too sometimes they experiment in multiple environments carrying a single idea to social industrial and cultural fruition by learning to view traditional art science barriers as a zone of creativity that edwards calls arts science through analysis of original stories of arts science innovation in france germany and the united states he argues for the development of a new cultural and educational environment particularly relevant to today s need to innovate in increasingly complex ways in which artists and scientists team up with cultural industrial social and educational partners

**Interplay of Creativity and Giftedness in Science 2015-12-17**

how cognitive psychology explains human creativity conventional wisdom holds that creativity is a mysterious quality present in a select few individuals the rest of us the common view goes can only stand in awe of great creative achievements we could never paint guernica or devise the structure of the dna molecule because we lack access to the rarified thoughts and inspirations that bless geniuses like picasso or watson and crick presented with this view today s cognitive psychologists largely differ finding instead that ordinary people employ the same creative thought processes as the greats though used and developed differently by different people creativity can and should be studied as a positive psychological feature shared by all humans creativity understanding innovation in problem solving science invention and the arts presents the major psychological theories of creativity and illustrates important concepts with vibrant and detailed case studies that exemplify how to study creative acts with scientific rigor creativity includes two in depth case studies watson and crick s modeling of the dna structure and picasso s painting of guernica serve as examples throughout the text methods used by psychologists to study the multiple facets of creativity the ordinary thinking or cognitive view of creativity and its challengers how problem solving and experience relate to creative thinking genius and madness and the relationship between creativity and psychopathology the possible role of the unconscious in creativity psychometrics testing for creativity and how personality factors affect creativity confluence theories that use cognitive personality environmental and other components to describe creativity clearly and engagingly written by noted creativity expert robert weisberg creativity understanding innovation in problem solving science invention and the arts takes both students and lay readers on an in depth journey through contemporary cognitive psychology showing how the discipline understands one of the most fundamental and fascinating human abilities this book will be a hit it fills a large gap in the literature it is a well written scholarly balanced and engaging book that will be enjoyed by students and faculty alike david goldstein university of toronto

**Creativity, Psychology and the History of Science 2005-09-22**

david bohm is widely recognized for his significant contributions to the discussion on the relationship between art and science on creativity is a
collection of essays by bohm which are all related directly to the nature of creativity primarily the latent creativity in the human mind but
interestingly enough to the creativity in nature and the universe at large as well a significant portion of the material draws overtly from bohm s
perceptions as a practising scientist his notions of what underlies a paradigm shift or how laws of nature theories and hypotheses are perceived
rationalized and axiomatized however the novelty and appeal of bohm s views of these processes is the suggestion that the work of the visual
artist is remarkably similar to that of the scientist he explores these similarities at length and even goes so far as to suggest that the creative
processes of the scientist and the artist are at work in every person written by david bohm and edited by lee nichol on creativity is a fascinating
read for bohm aficionados and for those interested in exploring the relation between creativity in art and science

Artscience 2010-03-20

leadership is vital to creativity and successful innovation in groups and organizations leadership is however seldom studied in the academic
literature as a creativity driver one reason for the lack of attention paid to leadership s effect on creativity may be the common belief that creativity
cannot and should not be managed creative individuals and groups are regarded as and indeed often are autonomous and self driving from this
belief the erroneous conclusion is drawn that there is no need for leadership in creative environments and situations the better conclusion
proposed by this book is that leadership not only stimulates creativity but that such a leadership in the science technology and innovation fields
should specifically possess at least two features a expertise in the field s and b an ability to create support and encourage individuals groups and
creative knowledge environments a number of specialist authors in this volume offer original theoretical empirical and applied chapters that
elucidate how to better organize and lead creative efforts in science technology and innovation a number of important research questions are
raised and answered including what kinds of leaderships are needed at different levels of s t organizations for a creative output what social and
cognitive abilities and skills are needed for leadership in creative environments how does leadership vary with different phases of the creative
process this book offers concrete analysis of how leaders and managers can facilitate promote and organize for creative performance in science
technology and in innovating organizations making it required reading for academic and industrial research leaders scientists and engineers

Creativity 2016-05-12

this book discusses the principles of controlling thinking in the solution of inventive problems that are transposed to the organization of creative
thinking in any sphere of human activity it is aimed at the engineer and also comprehensible to people who do not work with technology
On Creativity 1998

psychologists sociologists philosophers historians and even scientists themselves have often tried to decipher the basis for creativity in science some have attributed creativity to a special logic the so called scientific method whereas others have pointed to the inspirations of genius or to the inevitable workings of the zeitgeist finally some have viewed scientific breakthroughs as the product of chance as witnessed in the numerous episodes of serendipity too often these four alternative interpretations are seen as mutually exclusive yet the central thesis of this book is that the chance logic genius and zeitgeist perspectives can be integrated into a single coherent theory of creativity in science but for this integration to succeed change must be elevated to the status of primary cause logic genius and the zeitgeist still have significant roles to play but mainly operate insofar as they enhance or constrain the operation of a chance combinatorial process

Creativity and Leadership in Science, Technology, and Innovation 2014-03-14

this beautiful picture book is a guide to tapping into your creative potential this book delves into the science behind creativity providing readers with a deeper understanding of how the mind works and how to harness its power with practical exercises real life examples and actionable tips readers will learn how to overcome creative blocks generate new ideas and bring their unique visions to life whether you re an artist entrepreneur or simply looking to bring more creativity into your daily life this book is the perfect resource for anyone looking to boost their creativity and unleash their inner genius

Scientific Creativity: Its Recognition and Development 1975

the world is confronted by pressing problems that continue to challenge science and will only he solved using maginative new approaches but learning to think innovatively requires practice this workbook which serves as a companion to roberta ness s innovation generation how to produce creative and useful scientitic ideas addresses topics ranging from becoming a kcener obsever and asking the right questions to testing your ideas overcoming the stodginess of science and creating an innovatin incubator it will help you acquire the toels to overcome problems large and small

Creativity As an Exact Science 1984-01-16
after newton died in 1727 a monument was erected in the scientist s corner of westminster abbey it was decorated with a pile of four books and adorned with cherubs holding a prism a telescope and newly minted coins the implication is clear newton s towering intellect and god given gift for creative thinking was the origin of his inspiration not far away at the front of the monument to newton is the tomb of charles darwin who published on the origin of species which first discussed the evolution of man the proximity of the monuments is telling if we are to define the single most unique human attribute evolution has produced it must be our ability to think creatively thinking is the ultimate human resource breaking through the barriers posed by dogma and reaching beyond the limits of established patterns of thinking to discover what is new and useful isthe engine that drives society this book which had its genesis in a conference organized by karl pfenninger and held at aspen colorado entitled higher brain function art and science an interdisciplinary examination of the creative process brings together articles by thirteen contributors from the fields of science art and music two of the contributors have been awarded nobel prizes and all are distinguished representatives of their fields the origins of creativity is organized around four central themes of creativity the creative experience in art and science the biological basis of imagination emotion and reason creative powers and the environment and the mind s perception of patterns the views of artists who couch their ideas in more metaphorical language mingle with the analytical thoughts of scientists who strive to understand how the brain generates images and ideas the voices of creators artist scientist mathematician and of those who study creative activity neuroscientist psychologist philosopher generate a broad spectrum of views on creativity whose integration offers new insights and becomes a creative act in itself this book offers insights into the origins of human creativity to scientists artists and general readers its inter disciplinary authorship presents a uniquely broad perspective on current research and the style throughout is accessible and engaging

Creativity in Science 2004-05-03

how can science help us develop our creativity become better creative thinkers and problem solvers and use this as an advantage throughout our lives the creative advantage is a deep dive into the science that fuels creativity it explains how we can rewire our brain understand our motivators modify our behaviours boost our skillset and instill habits to give us an advantage in this rapidly changing and competitive world by demystifying creativity and demonstrating that it s a learned skillset this book provides practical ways to tap into creative problem solving techniques to incorporate into the everyday life choices combined with your brain s 80 billion neurons you re geared to have a creative advantage in life to be your best self the creative advantage takes the reader through these key areas outlining the key elements of creative problem solving a universal process that can enable anyone to become proficient in defining and ideating on a problem and developing then acting on a solution clarifying what s happening in the brain and how we can rewire it for creative insight demonstrating how the four key elements of creativity can be cultivated understanding our defining intrinsic motivators identifying the essential skills and behaviours to enhance creativity developing subject expertise through deliberate practice and controlling our work and social environment for maximum impact the value of building creative muscles through habit formation and creating ease by establishing routines to ensure your practice sticks the science linking creativity and brain health with a focus on the importance of sleep movement and restorative activities to enhance cognitive abilities practical ways to introduce play daydreaming mind
Think Like a Genius: The Science of Creativity 2023-01-20

at the 6th international zermatt symposium prof antonino zichichi of the world federation of scientists presented a lecture to a diverse audience of scientists managers and engineers among others all of whom were interested to learn about the creative process which distinguishes mankind from other forms of life this book presents prof zichichi s experience in the creative sphere of our existence

Creativity in the Sciences 2013-02-07

remarkable this profound volume informs and inspires pw starred review from the pulitzer prize winning new york times science reporter acclaimed for bring ing scientific concepts to life bill gates a pathbreaking new investigation into the mysteries of human creativity how does creativity work where does inspiration come from what are the secrets of our most revered creators how can we maximize our creative potential this is the story of how we create creativity defines the human experience it sparks achievement and innovation in art science technology business sports and virtually every activity it has fueled human progress on a global level but it equally is the source of profound personal satisfaction for individual creators and yet the origins of creative inspiration and the methods by which great creators tap into it have long been a source of mystery spoken of in esoteric terms our rational understanding shrouded in complex jargon until now inspired is a book about the science of creativity distilling an explosion of exciting new research from across the world through narrative storytelling richtel marries these findings with timeless insight from some of the world s great creators as he deconstructs the authentic nature of creativity its biological and evolutionary origins its deep connection to religion and spirituality the way it bubbles in each of us urgent and essential waiting to be tapped many of the questions richtel addresses are practical what are the traits of successful creators under which conditions does creativity thrive how can we move past creative blocks the ultimate message of inspired is that creativity is more accessible than many might imagine as necessary beautiful and fulfilling as any essential part of human nature
in her tour of creativity and the brain nancy andreasen professor of psychiatry at the university of iowa and the winner of the national medal of science shows us that creativity is not the same as intelligence nor the same as skill rather we discover the essence of creativity is to shape the materials of life in new and unexpected ways andreasen explores how the human brain achieves creative breakthroughs in art literature music and science the role of genes and environment extraordinary creativity vs ordinary creativity the possession of a omnivorous vision the value of not having a standard education and the question of genius and insanity the author examines what extraordinary creators such as mozart henri poincare and coleridge said about creating and how their insights reflect particular qualities of creative people and the creative process she includes her fascinating interview with the playwright neil simon in which he described how his mind and brain work andreasen also shows how her studies of participants in the iowa writer s workshop and other evidence suggest that while creativity often may be inherited and may sometimes be associated with mental disorders neither is inevitable or necessary for creativity to flourish the creating brain offers insight into what creates the creative brain and offers advice to nurture it in both children and adults book jacket

an intellectual hero a superb celebrator of science in all its manifestations ian mcewan darwin s great successor jeffrey sachs the legendary biologist edward o wilson offers his most philosophically probing work to date creativity is the unique and defining trait of our species and its ultimate goal self understanding begins edward wilson s sweeping examination of the humanities and their relationship to the sciences by studying fields as diverse as paleontology evolutionary biology and neuroscience wilson demonstrates that human creativity began not 10 000 years ago as we have long assumed but over 100 000 years ago in the paleolithic age chronicling the evolution of creativity from primates to humans wilson shows how the humanities in large part spurred on by the invention of language have played a previously unexamined role in defining our species exploring a surprising range of creative endeavors the instinct to create gardens the use of metaphors and irony in speech or the power of music and song wilson proposes a transformational third enlightenment in which the blending of science and the humanities will enable us to gain a deeper understanding of the human condition and how it ultimately originated

creativity influences each of our lives and is essential for the advancement of society the first edition of the successful encyclopedia of creativity helped establish the study of creativity as a field of research in itself the second edition published in 2011 was named a 2012 outstanding
academic title by the american library association's choice publication featuring 232 chapters across 2 volumes the third edition of this important work provides updated information on the full range of creativity research there has been an enormous increase in research on the topic throughout the world in many different disciplines some areas covered in this edition include the arts and humanities business education mental and physical health neuroscience psychology the creative process and technology fundamental subjects are discussed such as the definition of creativity the development and expression of creativity across the lifespan the environmental conditions that encourage or discourage creativity the relationship of creativity to mental health intelligence and learning styles and the process of being creative creativity is discussed within specific disciplines including acting architecture art dance film government interior design magic mathematics medicine photography science sports tourism and writing a wide range of topics are covered here is a partial overview by topic business and organizational creativity advertising creative economies creativity consulting and coaching corporate creativity creativity exercises entrepreneurship group dynamics innovation leadership management of creative people patents teams and training the cognitive aspects of creativity altered and transitional states analogies attention breadth of attention cognitive style divergent thinking flow and optimal experience knowledge logic and reasoning metacognition mental models memory metaphors mind wandering mindfulness problem finding problem solving and remote associates the creative process attribution constraints discovery insight inspiration intentionality motivation risk taking and tolerance for ambiguity education children's creativity education intelligence knowledge metacognition play prodigies programs and courses talent and teaching creativity neuroscience research cellular matter grey matter cellular density eeg functional magnetic resonance imaging fmri music and the brain pupillometry systems the cerebellum and transcranial electrical stimulation psychology the big 5 personality characteristics bipolar mood disorders childhood trauma depression deviance dreams emotions expressive arts grit introversion jungian theory mad genius controversy openness schizotypy suicide therapy and counseling trauma and transcendence and transforming illness and visual art social aspects of creativity awards birth order criticism consensual assessment diversity eminence families friendship and social networks geeks mentors millennials networking rewards and sociology society and creativity awards climate for creativity cross cultural creativity destruction of creativity law and society social psychology social transformation voting war and zeitgeist technology chats computational creativity computerized text analysis gaming memes networks and maps and virtual reality

Creativity in Science 1999

A key result of the contemporary study of discovery and creativity concerns the availability of descriptive and normative models for explaining discovery and creative processes this book addresses these models and the changes they induced within methodology

Inspired 2022-04-19
at the heart of creativity is the practice of bringing something new into existence whether it be a material object or abstract idea thereby making history and enriching the creative tradition a cognitive historical approach to creativity explores the idea that creativity is both a cognitive phenomenon and a historical process blending insights and theories of cognitive science with the skills mentality and investigative tools of the historian this book considers diverse issues including the role of the unconscious in creativity the creative process creating history with a new object or idea and the relationship between creators and consumers drawing on a plethora of real life examples from the eighteenth century through to the present day and from distinct fields including the arts literature science and engineering subrata dasgupta emphasizes historicity as a fundamental feature of creativity providing a unified integrative interdisciplinary treatment of cognitive history and its application to understanding and explaining creativity in its multiple domains a cognitive historical approach to creativity is essential reading for all researchers of creativity

The Psychology of Creativity and Discovery 1981

all normal human beings alive in the last fifty thousand years appear to have possessed in mark turner s phrase irrepressibly artful minds cognitively modern minds produced a staggering list of behavioral singularities science religion mathematics language advanced tool use decorative dress dance culture art that seems to indicate a mysterious and unexplained discontinuity between us and all other living things this brute fact gives rise to some tantalizing questions how did the artful mind emerge what are the basic mental operations that make art possible for us now and how do they operate these are the questions that occupy the distinguished contributors to this volume which emerged from a year long getty funded research project hosted by the center for advanced study in the behavioral sciences at stanford these scholars bring to bear a range of disciplinary and cross disciplinary perspectives on the relationship between art broadly conceived the mind and the brain together they hope to provide directions for a new field of research that can play a significant role in answering the great riddle of human singularity

The Creating Brain 2005

how do you measure the imagination how do you quantify an epiphany in jonah lehrer s book we go in search of the epiphany shattering the myth of creative types lehrer shows how new research is deepening our understanding of the human imagination

The Origins of Creativity 2017-10-03
genius invention talent and of course creativity these words describe the highest levels of human performance when we’re engaged in the act of being creative we feel we are performing at the peak of our abilities creative works give us insight and enrich our lives creativity is part of what makes us human our nearest relatives chimpanzees and other primates are often quite intelligent but never reach these high levels of performance

**The Index of Scientific Writings on Creativity 1976**

in the evolution of science and technology laws governing exceptional creativity and innovation have yet to be discovered in his influential study the structure of scientific revolutions the historian thomas kuhn noted that the final stage in a scientific breakthrough such as albert einstein’s theory of relativity the most crucial step was inscrutable the same is still true half a century later yet there has been considerable progress in understanding many stages and facets of exceptional creativity and innovation in exceptional creativity in science and technology editor andrew robinson gathers diverse contributors to explore this progress this new collection arises from a symposium with the same title held at the institute for advanced study ias in princeton organized by the john templeton foundation the symposium had the late distinguished doctor and geneticist baruch s blumberg as its chair at the same time its ias host was the well known physicist freeman j dyson both of whom have contributed chapters to the book in addition to scientists engineers and an inventor the book’s fifteen contributors include an economist entrepreneurs historians and sociologists all working at leading institutions including bell laboratories microsoft research oxford university princeton university and stanford university each contributor brings a unique perspective to the relationships between exceptional scientific creativity and innovation by individuals and institutions the diverse list of disciplines covered the high profile contributors including two nobel laureates and their fascinating insights into this overarching question how exactly do we make breakthroughs will make this collection of interest to anyone involved with the creative process in any context still it will especially appeal to readers in scientific and technological fields

**Encyclopedia of Creativity 2020-04-12**

this is the first empirical investigation of scientific creativity based on research interviews with living nobel laureates in physics chemistry and physiology or medicine whose formulations are compared to those of a control group of engineering faculty members findings were that three cognitive creative processes described herein janusian homospatial and sep con articulation as well as strong motivation passion and other accompanying emotions were responsible for creative breakthroughs leading to outstanding scientific discoveries in the nobel laureate group
Models of Discovery and Creativity 2009-12-28

Explaining Creativity 2019-03-20

A Cognitive-Historical Approach to Creativity 2006-10-26

The Artful Mind 2012

Imagine 1963

Essays on Creativity in the Sciences 2023

Explaining Creativity 2013-03-18
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