

Contemporary Ceramic Art Creation: Pathways for Revitalizing Traditional Crafts

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Abstract: In contemporary ceramic art creation, traditional crafts are shifting from technique reproduction to linguistic translation. This paper, based on a stance of "revitalization," examines the mechanisms by which traditional craft elements are re-identified, deconstructed, and recombined in the contemporary context. The study is conducted from three levels: revaluation of the craft's ontology, encompassing the temporal dimension of material language, tacit knowledge structures, and the semantic voiding of symbols; analysis of transformation mechanisms, including parameter deviation, process interruption, and defamiliarization of tool tactility; and aesthetic reconstruction, focusing on the temporal landscaping of firing traces, the loosening of integrity boundaries, and the isomorphism of craft rhythm and viewing time. The research points out that the revitalization pathway of traditional crafts does not lie in the reproduction of complete styles, but in the structural extraction and reconfiguration of their internal logic, transforming crafts from manufacturing norms into an operable variable system.

Keywords: traditional crafts, ceramic art, revitalization pathways, material language, tacit knowledge, transformation mechanisms

Introduction

In contemporary ceramic art, the application of traditional crafts has gone beyond the scope of stylistic imitation and nostalgic reconstruction. Creative practice shows that artists' adoption of crafts presents non-functional and non-narrative characteristics, which necessitates a re-examination of the position of the craft itself in the current context. Traditional crafts possess revitalization potential, not because of their historical depth or symbolic significance, but because they contain within themselves material logic and operational logic that can function independently from their original contexts. Existing studies tend to focus on standardized records of craft historical lineages or technical parameters, while paying insufficient attention to the visual coding mechanisms of craft elements after they have been detached from their original functional orientations. The necessity of this paper lies in establishing an analytical path that does not rely on external narrative frameworks, but directly starts from the material properties, operational procedures, and perceptual modes of crafts to examine their structural transformation when entering contemporary creation. By proposing concepts such as the temporalization of material language, the algorithmization of tacit knowledge, the parameterization of craft variables, and the explication of procedural rhythm, this paper attempts to provide operable analytical tools for understanding the functioning of traditional crafts in contemporary ceramic art, so as to bridge the theoretical gap between technical research and aesthetic research.

1. Revaluation of Traditional Crafts in the Contemporary Context

1.1 Material Language and Temporal Dimension of the Craft Ontology

Material language in traditional ceramic crafts is not a static collection of material properties. Parameters such as the plasticity of clay, the light transmittance and melting temperature range of glaze, and the shrinkage ratio of the body under different firing atmospheres collectively constitute a coding system that can be repeatedly read but cannot be fully replicated. In contemporary creation, the invocation of such material language often does not directly inherit its established functional orientation, but rather treats it as a medium carrying traces of time. The mining layer of clay, the length of aging time, and the slight deviations in glaze formulas during their transmission all make each work

made with traditional crafts embed irreversible temporal information. This temporal dimension is not an externally added narrative, but rather the result of natural sedimentation of the material itself during the processes of processing and transformation.

From the perspective of the evolution of material properties, the firing stage in traditional crafts constitutes a node where time solidifies. Variations in heating curves and holding durations directly lead to differences in glaze crystallization morphology or body compactness. When addressing this issue, contemporary ceramic artists tend to treat firing itself as an operation that reveals the diachronic characteristics of materials. Phenomena such as the layered coloration presented by the same clay under different firing cycles, or the color gamut shift of the same glaze in reducing versus oxidizing atmospheres, are no longer regarded as deviations that need correction, but are understood as temporal expressions of material language. The craft ontology thus frees itself from the singular identity of instrumental attributes and becomes a continuous interface connecting present operations with past technological sedimentation^[1].

1.2 Analysis of the Tacit Knowledge Structure in Forming Techniques

Forming techniques contain a large amount of tacit knowledge that cannot be fully transmitted through text or diagrams. In hand-throwing, the pressure angles applied by both hands to the clay mass, the moisture control at the seams of each layer in coil building, and the instantaneous force release when tools contact the body in paddling forming—all these operations rely on the long-term honing of bodily memory and tactile feedback. The tacit knowledge structure has two notable features: first, it is highly contextualized, meaning that the same technique can produce vastly different results under different clay conditions; second, it is difficult to break down into independent sequential steps, as the overall operation is greater than the mechanical sum of its parts. In contemporary creation, the extraction of such tacit knowledge is not aimed at completely replicating traditional styles, but rather at using it as an underlying algorithm for generating non-predetermined forms.

Further analysis indicates that tacit knowledge in traditional craft systems is often perpetuated through oral instruction and physical demonstration between masters and apprentices, with its transmission efficiency depending on the learner's kinesthetic imitation ability. In contemporary ceramic art creation, artists consciously extract this tacit knowledge from skilled operations, transforming it into a formal logic that can be recoded. For example, when the relationship between the rotational motion of hand-throwing and centrifugal force is isolated, it can be combined with off-center force application to produce distorted contours that do not exist in traditional vessel forms. The tacit knowledge structure no longer serves standardized forming objectives, but is instead converted into a research tool for exploring the boundaries of material behavior. This conversion shifts forming techniques from memory reproduction to variable control, preserving the bodily foundation of traditional skills while opening up new channels for form generation.

1.3 Symbolic Retention and Semantic Voiding in Decorative Crafts

Decorative crafts have formed a large number of stable symbolic systems over the course of historical transmission. Patterns such as lotus patterns, ruyi patterns, and interlocking branch patterns originally carried specific symbolic meanings or ritual functions, but with changes in usage contexts and audience groups, the original meanings of these symbols have gradually become blurred or even detached. In contemporary ceramic creation, the adoption of traditional decorative crafts often faces a contradictory state between symbolic retention and semantic voiding. On the one hand, the visual characteristics of techniques such as engraving, polychrome painting, and colored glazes can still be clearly identified; on the other hand, the social or religious referents originally corresponding to these techniques no longer have universal binding force. Symbolic retention manifests as the continuation of formal language, while semantic voiding provides contemporary artists with gaps for refilling meaning^[2].

This state of semantic voiding is not a deficiency, but rather constitutes a special creative condition. The repetitive patterns, stylized compositional rules, and stylistic associations triggered by specific color combinations in traditional decorative crafts can function independently from their original symbolic systems. In contemporary works, the flowing boundaries of colored glazes may no longer symbolize auspiciousness, but instead point to the randomness of chemical reactions in glazes; the spacing arrangements of engraved lines may no longer depict a certain narrative, but rather construct a purely visual rhythm. Symbols are no longer asked "what they represent," but examined "how they

operate." Decorative crafts thus shift from semantic loading to formal grammar, and their vitality is embodied in the combinatorial logic that can be continuously reconfigured, rather than in the faithful reproduction of a fixed meaning.

2. Transformation Mechanisms and Intervention Approaches of Traditional Craft Elements

2.1 Deviation-Based Processing Strategies for Craft Parameters

In traditional ceramic crafts, parameters such as firing temperature, glaze formulation, and body thickness are usually confined within relatively precise ranges to ensure yield rate and expected visual effects. The deviation-based processing strategy consists in actively adjusting one or multiple parameters beyond conventional boundaries, while acknowledging the validity of this parameter system. For example, reducing the proportion of flux in the glaze below the normal value, so that the glaze surface presents a semi-molten granular texture; or raising the firing temperature to near the critical tolerance point of the body, inducing local deformation or bubble bursting. This deviation is not arbitrary destruction, but rather a selective amplification of variables that were originally suppressed in the system, based on an in-depth understanding of the causal relationships among craft parameters. The key to the operation lies in controlling the magnitude and direction of the deviation, so that the result falls within a controllable deviation range, rather than becoming completely out of control.

The core value of deviation-based processing lies in redefining the boundary between "correct" and "incorrect" with regard to craft parameters. In traditional production, deviation from standard parameters often meant defective or waste products, and the special effects produced were classified as accidental flaws. In contemporary creation, such deviations are systematically extracted as a generative means. Differences in crystallization morphology produced by the same glaze formula under different heating curves, or cracking patterns of the same clay formed under different moisture content conditions, can both yield a series of graded states through continuous parameter shifts. Artists no longer pursue a single optimal solution for parameters, but rather map the morphological spectrum unfolded by parameter deviation. This processing strategy transforms craft parameters from constraints into a variable bank, establishing a new equilibrium between controllability and uncontrollability in traditional crafts^[3].

2.2 Reverse or Interruptive Operations of Procedural Logic

Traditional ceramic production follows a relatively fixed sequence of procedures. From clay preparation, forming, trimming, bisque firing, glazing, to glaze firing, each step provides the necessary foundational conditions for subsequent operations. Reverse operation refers to altering the conventional direction of this sequence, for example, performing engraving or polishing after glaze firing, thereby inverting the interfacial relationship between the glaze layer and the body layer. Interruptive operation, on the other hand, consists in stopping in the middle of a certain procedure, leaving the process in a semi-completed state—for instance, after bisque firing, instead of applying glaze, directly polishing the bisque body, or cutting off during the glaze drying process to retain the drip traces of the glaze layer. Such intervention approaches break the causal dependencies between procedures, enabling each step to potentially become an independent terminus rather than a transitional link.

Another layer of meaning of interruptive operation lies in re-examining the traditional standard of "completeness." Traditional crafts pursue the full realization of each procedure, while interruptive operation intentionally controls the degree of execution of a certain step at 80% or 50%. For example, retaining some tool marks during trimming without smoothing them out, or glazing only the inner wall of a vessel while leaving the outer wall in bisque state. This interruption results in the final form of the work presenting a coexistence of multiple levels of completion: one area displays traditional craft features of high completion, while another retains the texture of rough blank or semi-processed state. The breakpoints in procedural logic often become the focus of visual attention, because they reveal the decision point where an object could have been further processed but was actively halted. This halting itself constitutes an aesthetic judgment, making the temporality of the procedure directly present.

2.3 Defamiliarization Matching of Tools and Tactility

Traditional ceramic tools' shapes, weights, and surface roughness have evolved over time to form configurations highly adapted to hand operations. The rotational speed tactility of the potter's wheel,

the angle and elasticity of trimming knives, and the curvature of wooden paddles are all designed to establish a smooth tactile feedback loop. Defamiliarization matching refers to intentionally altering the habitual relationship between such tools and tactility, so that artists receive tactile information deviating from expectations during operation. Common methods include increasing or decreasing tool weight, changing the grip diameter of handles, replacing original components with materials of different elastic moduli, or merging the functions of two tools into one irregularly shaped object. Changes in tactility induce adaptive adjustments in the way the body applies force to the material, and such adjustments often produce modeling marks that are not easily generated under normal conditions.

A further defamiliarization strategy involves the complete replacement or elimination of tools. When a rubber block is used in place of a wooden paddle, the rebound force and acoustic feedback of striking change, and the texture left on the clay body surface also shifts from sharp to dense. Alternatively, tools are abandoned altogether, with fingers, palms, knuckles, or even the entire arm coming into direct contact with the clay body. When body parts replace standardized tools, the operational precision and repeatability mediated by tools in traditional crafts are disrupted, replaced instead by more direct and non-reproducible bodily traces. The ultimate purpose of defamiliarization matching is not to reject tools, but to dismantle the automated association between tools and tactility, compelling artists to re-engage with the materiality of clay and to discover new formal possibilities in non-habitual operational contexts. This rematching transforms the relationship of "extension of the hand" in traditional crafts into a process of "rediscovery of the hand"^[4].

3. Contemporary Aesthetic Reconstruction of Traditional Craft Logic

3.1 Retention of Firing Traces and Temporal Landscaping

In traditional ceramic crafts, traces such as kiln changes, slag deposits, smoke staining, and glaze bubble bursting are usually regarded as firing defects and need to be avoided through precise control of firing conditions. In contemporary creation, artists consciously retain such traces and regard them as temporal scales that record the firing process. Each slag deposit corresponds to the moment of impact of particles detached from the saggar; the gray-black bands of smoke staining correspond to the deposition path of free carbon in a reducing atmosphere; and unmelted quartz particles mark the residence time within specific temperature ranges of the heating curve. These traces constitute a nonlinear temporal archive, pointing to the physical time of the firing event itself, rather than the symbolic time carried by vessel forms or decorative patterns. The density, distribution, and morphological changes of the traces reflect the interactions among fire, atmosphere, glaze, and body within specific time periods.

The treatment of firing traces as temporal landscaping means compressing the dynamic evolution inside the kiln during the firing process onto the ceramic surface. Traces produced at different stages often possess distinct morphological characteristics: water vapor expulsion marks from the low-temperature stage, organic matter combustion residues from the mid-temperature stage, and glaze flow traces from the high-temperature stage. When these traces appear simultaneously on the same work, they form a layered temporal structure. Without relying on external knowledge, viewers can infer the sequence of firing events from the superposition relationships among the traces. This temporal landscaping differs from pictorial representations of the passage of time; it does not depend on metaphor, but directly presents evidence of material changes under thermal fields. The retention of firing traces transforms ceramics from mere vessels of form into a stratigraphic existence that carries its own time index^[5].

3.2 Loosening of the Boundaries of Object Integrity and Fragment Reassembly

In the traditional aesthetic system of ceramics, the requirement for object integrity is manifested at multiple levels: the completeness of closed vessel contours, the continuity of glaze coverage, and the defect-free state of the body structure. In contemporary creation, this boundary is intentionally loosened, making incompleteness a legitimate aesthetic option. Specific manifestations of boundary loosening include non-closed treatment of rims, partial perforation of vessel walls, deliberately peeled areas of glaze, and retention of shrinkage cracks on the body. Such operations alter the binary division between integrity and defect, placing the object in an intermediate state that is neither intact nor completely damaged. This intermediate state does not seek to establish a new standard of integrity, but rather returns the authority of judging integrity to individual perception in the process of viewing. On

the same object, one perspective may show a complete contour, while another may expose holes made by manual perforation.

Fragment reassembly further departs from the singular identification of the object proper. Reassembling fragments from different bodies, or deliberately misaligning and joining fragments of the same object, breaks the logical attribution between the original vessel form and its fragments. The reassembly process explicitly displays features such as gaps, glaze color mismatches, and body thickness inconsistencies, rather than deliberately concealing them. This treatment acknowledges the irreversibility of ceramic breakage; reassembly does not seek restoration, but rather establishes new connecting rules. The fragments retain the trace fingerprints of their respective original vessels, and the gaps and misalignments between them become pauses in viewing, revealing the deconstructability and reconfigurability of ceramics, thereby shifting the traditional logic of "cherishing objects" from preserving integrity to visual acceptance of breakage itself.

3.3 The Isomorphic Relationship between Craft Rhythm and Viewing Time

Ceramic craftsmanship, from clay to finished product, involves multiple stages that require waiting: the drying period after forming, the second drying after trimming, the cooling after bisque firing, the solidification of the glaze layer after glazing, and the cooling after glaze firing. These waiting intervals constitute the temporal rhythm of the craft, characterized by alternations between operation and interruption. In contemporary creation, artists make this rhythm perceptible by retaining traces of the process. For example, deliberately keeping tool marks after trimming and then covering them with a thin layer of slip allows viewers to discern the sequence of trimming followed by slip application; or scraping off part of the glaze layer after glazing to expose the bisque body, implying the decision interval between the actions of glazing and scraping. These operations externalize the time intervals originally hidden within the craft chain into visually readable information^[6].

The isomorphic relationship between viewing time and craft rhythm is manifested in the match between the movement of the viewer's gaze and the sequence of the work's craft generation. When a work simultaneously presents throwing marks, trimming marks, moisture absorption traces after bisque firing, and the glossy layer after glaze firing, the viewer's eyes unconsciously traverse the surface according to the chronological order in which the crafts occurred. Viewing is no longer an instantaneous holistic grasp, but rather a linear scanning along the temporal cues suggested by the work. In some works, rough cross-sections left at points of process interruption appear adjacent to finely polished smooth areas, forcing the viewer's gaze to move back and forth across this boundary, thereby experiencing the very moment of deciding to "stop" or "continue" during craft operations. This isomorphic relationship makes the viewing act itself a reenactment of craft time, and the ceramic work serves as the triggering interface for this reenactment.

Conclusion

The revitalization of traditional crafts is not the reactivation of old techniques, but rather the reassembly of their constitutive logic after structural deconstruction. This paper demonstrates this argument through three progressive levels: at the level of revaluation, the craft ontology is regarded as a dynamic system carrying temporal information, tacit operational experience, and detachable symbols; at the level of transformation mechanisms, through parameter deviation, process interruption, and defamiliarization of tool tactility, the controllable boundaries of traditional crafts are disturbed, releasing non-predetermined form-generating capacities; at the level of aesthetic reconstruction, firing traces, object boundaries, and craft rhythm are reconstructed as viewable temporal structures, transforming ceramics from modeling objects into material interfaces of time indexing. The three pathways collectively point to the following: the vitality of traditional crafts is not stored in established forms, but distributed among their separable, recombinable, and renamable elements. Future research may extend to the interdisciplinary field of materials science and craft perception, exploring controlled randomness models of trace generation under different firing regimes, as well as the synergy between digital fabrication and traditional handicrafts—for example, converting tacit knowledge into parametric design logic through motion capture, enabling segmented precise control of the firing process. These directions can help elevate "revitalization" from a creative strategy to a systematic paradigm of craft knowledge production.

References

- [1] Zhong Dixi, Lu Ying, and Luo Qiuju. "From Ceramic Production Center to Cultural Creative Tourism Destination: The Contemporary Revival and Innovation of Jingdezhen's Traditional Handicrafts from a Knowledge Perspective." *Tourism Tribune*, vol. 40, no. 01, 2025, pp. 87-101.
- [2] Shi Linlin, and Lyu Pinchang. "Cultural Space: The Field Construction of Contemporary Chinese Ceramic Art." *Journal of Ceramics*, vol. 46, no. 04, 2025, pp. 849-856.
- [3] Wang Qingli, and Wang Shuyao. "Research on the Traditional Porcelain-Making Techniques of Jingdezhen Blue-and-White Porcelain from the Perspective of Cultural Inheritance." *Journal of Ceramics*, no. 05, 2024, pp. 1048-1055.
- [4] Zhang Xinkang. "Simplicity and Naturalness: A Study on the Application of Smoke Firing Techniques in Contemporary Ceramic Art." MA thesis, Jingdezhen Ceramic University, 2023.
- [5] Shen Wenguang. "A Discussion on the Contemporary Relevance of Material Beauty and Craftsmanship: Reflections on the Current State of Chinese Contemporary Ceramic Art." *China Art*, no. 03, 2022, pp. 30-35.
- [6] Li Yunbiao. "Traditional Artistic Characteristics Embodied in the Ceramic Manufacturing Techniques of the Song Dynasty." *Bulletin of the Chinese Ceramic Society*, vol. 41, no. 04, 2022, pp. 1479-1480.